

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
Report for
the Month of: November 2013

Operator's Signature: _____
Certificate No. & Grade: WO0012234, A Date: December 2, 2013

TREATMENT PLANT PERFORMANCE

Total number of turbidity readings:	<u>167</u>	Number of 4-hour periods when plant was off-line:	<u>13</u>
Number of readings above 0.10 NTU:	<u>21</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>0.17</u> NTU
		Minimum turbidity reading:	<u>0.07</u> NTU
		CFE 95 th percentile value:	<u>0.12</u> NTU
		Average turbidity value:	<u>0.09</u> NTU
		Standard deviation:	<u>0.018</u> NTU
		IFE 95 th percentile:	<u>0.140</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>30</u>
		Number of days when CT data was not collected:	<u>0</u>
Minimum disinfectant residual required leaving the plant:		<u>0.5</u> 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 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, measured as Total Chlorine		
Total number of readings this month:	<u>60</u>	(at least 30 required) (8)	
Average disinfectant residual value:	<u>2.21</u>	Percentage of readings with a low residual this month:	<u>0.0</u> % (6A)
Number of readings with a low residual:	<u>0</u>		
Number of readings with no detectable residual:	<u>0</u>	Percentage of readings with a low residual last month:	<u>0.0</u> % (6B)

ADDITIONAL REPORTS & WORKSHEETS

The Page 1 Addendum (Public Notices) is not required because there were no treatment technique or monitoring/reporting violations reported.

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 (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: 10,859

Month: November Year: 2013

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	1.610	1.610	32	81								0.09	0.10	0.09	0.08	0.08	0.07	3.4	
2	1.612	1.612	37	81								0.08	0.10	0.09	0.10	0.09	0.10	3.5	
3	1.714	1.483	43	83								0.10	0.09	0.10	0.11	0.12	0.12	3.4	
4	1.513	1.312	39	82								0.12	0.10	0.10	0.10	0.10	0.10	3.5	
5	1.256	1.256	29	82								x	x	0.17	0.12	0.11	0.10	3.0	
6	1.610	1.610	33	81								0.10	0.09	0.09	0.08	0.10	0.09	3.6	
7	1.600	1.469	33	81								0.09	0.08	0.09	0.08	0.08	0.08	3.4	
8	1.488	1.387	28	80								0.08	0.08	0.09	0.09	0.09	0.08	3.2	
9	1.157	1.045	30	80								x	x	0.10	0.10	0.10	0.11	2.9	
10	1.630	1.580	41	83								0.11	0.10	0.10	0.09	0.09	0.08	3.0	
11	1.620	1.570	41	83								0.08	0.08	0.07	0.07	0.07	0.08	3.5	
12	1.653	1.451	31	82								0.08	0.07	0.09	0.09	0.10	0.11	3.3	
13	1.630	1.558	31	81								0.09	0.09	0.09	0.08	0.09	0.14	3.4	
14	1.630	1.528	32	81								0.10	0.10	0.10	0.10	0.10	0.09	3.5	
15	1.630	1.544	30	81								0.09	0.09	0.08	0.07	0.07	0.08	3.5	
16	1.687	1.586	28	81								0.08	0.10	0.09	0.08	0.08	0.08	3.4	
17	1.650	1.552	28	83								0.08	0.07	0.08	0.07	0.07	0.07	3.4	
18	0.932	0.832	28	83								0.08	0.08	x	x	x	0.09	3.0	
19	1.600	1.595	25	84								0.08	0.09	0.07	0.07	0.07	0.09	3.5	
20	1.610	1.407	30	82								0.08	0.08	0.07	0.08	0.08	0.07	3.3	
21	1.600	1.533	30	82								0.08	0.10	0.07	0.07	0.07	0.08	3.6	
22	1.600	1.593	30	82								0.08	0.08	0.09	0.08	0.11	0.10	3.2	
23	1.600	1.482	28	83								0.10	0.10	0.08	0.08	0.09	0.09	3.3	
24	1.010	0.800	28	83								0.09	0.08	0.07	0.11	x	x	3.6	
25	1.610	1.548	28	86								0.16	0.15	0.17	0.13	0.12	0.13	3.3	
26	1.604	1.411	24	88								0.10	0.10	0.11	0.10	0.10	0.10	2.9	
27	1.600	1.504	26	85								0.10	0.09	0.09	0.07	0.07	0.08	3.6	
28	1.600	1.352	31	84								0.09	0.10	0.09	0.08	0.08	0.07	2.9	
29	0.967	0.967	22	87								0.07	0.09	0.08	0.07	x	x	3.5	
30	0.970	0.822	20	84								0.07	0.11	0.10	0.09	x	x	3.0	
31																			
Total	44.993	41.999																	
Avg	1.500	1.400																	
Max	1.714	1.612																	
Min	0.932	0.800																	

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: December 2, 2013

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 WTP

PWS ID No.: 1750002

Month:

November

Year:

2013

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	0.10	x	0.11	x	0.09	x	0.08	x												
2	x	x	0.09	x	0.08	x	0.08	x												
3	0.14	0.14	0.08	x	0.18	0.18	0.08	x												
4	0.11	x	x	x	0.15	x	0.07	x												
5	0.10	0.10	x	x	0.13	0.13	0.06	0.06												
6	0.07	x	x	x	0.09	x	0.06	x												
7	x	x	0.15	0.15	0.08	x	0.05	x												
8	0.10	0.10	0.11	x	0.06	x	0.05	x												
9	0.07	0.07	0.09	0.09	0.14	0.14	x	x												
10	0.07	x	0.09	0.09	0.12	x	x	x												
11	0.06	x	0.08	x	0.09	x	x	x												
12	0.12	0.12	0.08	x	0.07	x	0.11	0.11												
13	0.10	x	x	x	0.07	x	0.08	x												
14	0.08	x	0.14	0.14	0.07	x	0.08	x												
15	0.10	x	0.11	x	x	x	0.07	x												
16	0.10	x	0.09	x	0.14	0.14	0.06	x												
17	x	x	0.10	x	0.11	x	0.06	x												
18	0.13	0.13	0.08	x	0.08	0.08	0.06	0.06												
19	0.11	x	x	x	0.07	x	0.05	x												
20	0.08	x	0.13	0.13	0.06	x	0.05	x												
21	0.06	x	0.12	x	x	x	0.05	x												
22	0.08	x	0.09	x	0.12	0.12	0.05	x												
23	x	x	0.08	x	0.11	x	0.05	x												
24	0.11	0.11	0.08	x	0.08	x	0.04	x												
25	0.13	0.13	x	x	0.07	0.07	0.11	0.11												
26	0.07	x	0.12	0.12	0.06	x	0.08	x												
27	0.08	x	0.11	x	x	x	0.07	x												
28	x	x	0.08	x	0.10	0.10	0.06	x												
29	x	x	0.07	x	0.08	x	0.06	x												
30	0.10	0.10	0.08	0.08	0.08	0.08	0.06	0.06												
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	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: December 2, 2013

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: November Year: 2013

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 ₁₀ (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	FCL D1								
	FCL D2	1.6	1.600	20.0	6.7				
	CLA D3	3.6	1.600	21.0	7.5	3.84*	89.90*	7.69	
	D4							(G)	
	D5								
2	FCL D1								
	FCL D2	1.7	1.600	20.0	6.5				
	CLA D3	3.6	1.600	21.0	7.4	4.31*	95.48*	8.63	
	D4							(G)	
	D5								
3	FCL D1								
	FCL D2	1.5	1.600	18.0	6.5				
	CLA D3	3.5	1.600	19.0	7.6	3.40*	73.39*	6.79	
	D4							(G)	
	D5								
4	FCL D1								
	FCL D2	1.9	1.600	19.0	6.6				
	CLA D3	3.7	1.600	20.0	7.4	4.25*	99.52*	8.50	
	D4							(G)	
	D5								
5	FCL D1								
	FCL D2	1.4	1.700	18.0	6.6				
	CLA D3	3.0	1.700	19.0	7.2	2.90*	64.43*	5.80	
	D4							(G)	
	D5								
6	FCL D1								
	FCL D2	1.7	1.600	20.0	6.5				
	CLA D3	3.6	1.600	20.0	7.4	4.30*	95.44*	8.60	
	D4							(G)	
	D5								
7	FCL D1								
	FCL D2	1.5	1.600	18.0	6.5				
	CLA D3	3.5	1.600	19.0	7.4	3.40*	73.39*	6.79	
	D4							(G)	
	D5								
8	FCL D1								
	FCL D2	2.0	1.600	18.0	6.5				
	CLA D3	3.2	1.600	19.0	7.3	4.24*	97.65*	8.49	
	D4							(G)	
	D5								

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time=
9	FCL D1								
	FCL D2	1.2	1.600	17.0	6.5				
	CLA D3	3.1	1.600	18.0	7.3	2.63*	54.82*	5.25	
	D4							(G)	
	D5								
10	FCL D1								
	FCL D2	1.6	1.600	18.0	6.6				
	CLA D3	3.0	1.600	18.0	7.2	3.42*	78.15*	6.84	
	D4							(G)	
	D5								
11	FCL D1								
	FCL D2	1.4	1.600	17.0	6.4				
	CLA D3	3.7	1.600	18.0	7.4	3.11*	63.96*	6.22	
	D4							(G)	
	D5								
12	FCL D1								
	FCL D2	1.5	1.600	17.0	6.5				
	CLA D3	3.7	1.600	17.0	7.3	3.17*	68.47*	6.34	
	D4							(G)	
	D5								
13	FCL D1								
	FCL D2	1.6	1.600	17.0	6.6				
	CLA D3	3.4	1.600	17.0	7.5	3.21*	72.97*	6.43	
	D4							(G)	
	D5								
14	FCL D1								
	FCL D2	1.6	1.600	16.0	6.6				
	CLA D3	3.5	1.600	17.0	7.4	3.02*	68.12*	6.03	
	D4							(G)	
	D5								
15	FCL D1								
	FCL D2	1.6	1.600	15.0	6.6				
	CLA D3	3.6	1.600	16.0	7.7	2.82*	63.57*	5.64	
	D4							(G)	
	D5								
16	FCL D1								
	FCL D2	1.6	1.600	15.0	6.5				
	CLA D3	3.7	1.600	16.0	7.8	2.92*	63.58*	5.85	
	D4							(G)	
	D5								

NOTES: = ONLY use the "Time=" column to show the length of time that the total inactivation ratio was less than 1.00.

* Not representative of total log inactivation(s) and/or total inactivation ratio for all disinfection zones; Excluded from statistical summary calculations.

SUBMITTED BY: _____ Certificate No. and Grade: WO0012234, A Date: December 2, 2013

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: November Year: 2013

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				
T ₁₀ (minutes)	78.3	15.1	9.0			0.5	2.0

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								
	FCL D2	1.6	1.600	17.0	6.6				
	CLA D3	3.4	1.600	16.0	7.7	3.21*	72.94*	6.41	
	D4							(G)	
	D5								
18	FCL D1								
	FCL D2	1.5	1.600	18.0	6.6				
	CLA D3	3.0	1.600	18.0	7.8	3.25*	73.29*	6.49	
	D4							(G)	
	D5								
19	FCL D1								
	FCL D2	1.5	1.600	17.0	6.6				
	CLA D3	3.7	1.600	18.0	7.6	3.08*	68.50*	6.16	
	D4							(G)	
	D5								
20	FCL D1								
	FCL D2	1.5	1.600	17.0	6.6				
	CLA D3	3.5	1.600	18.0	7.5	3.07*	68.47*	6.13	
	D4							(G)	
	D5								
21	FCL D1								
	FCL D2	1.8	1.600	17.0	6.5				
	CLA D3	3.7	1.600	17.0	7.3	3.67*	82.07*	7.33	
	D4							(G)	
	D5								
22	FCL D1								
	FCL D2	2.0	1.600	17.0	6.6				
	CLA D3	3.7	1.600	18.0	7.3	3.85*	91.17*	7.71	
	D4							(G)	
	D5								
23	FCL D1								
	FCL D2	1.6	1.600	16.0	6.6				
	CLA D3	3.3	1.600	16.0	7.4	3.00*	68.07*	5.99	
	D4							(G)	
	D5								
24	FCL D1								
	FCL D2	1.6	1.600	14.0	6.5				
	CLA D3	3.6	1.600	14.0	7.4	2.72*	59.29*	5.44	
	D4							(G)	
	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									
	FCL D2	1.4	1.600	15.0	6.6					
	CLA D3	3.7	1.600	14.0	7.4	2.53*	55.63*	5.05		
	D4							(G)		
	D5									
26	FCL D1									
	FCL D2	1.7	1.600	13.0	6.5					
	CLA D3	3.5	1.600	14.0	7.5	2.67*	58.77*	5.33		
	D4							(G)		
	D5									
27	FCL D1									
	FCL D2	1.6	1.600	12.0	6.6					
	CLA D3	3.9	1.600	12.0	7.5	2.31*	51.64*	4.62		
	D4							(G)		
	D5									
28	FCL D1									
	FCL D2	1.6	1.600	11.0	6.5					
	CLA D3	3.8	1.600	11.0	7.4	2.23*	48.17*	4.45		
	D4							(G)		
	D5									
29	FCL D1									
	FCL D2	1.5	1.600	10.0	6.5					
	CLA D3	3.7	1.600	11.0	7.3	1.98*	42.17*	3.96		
	D4							(G)		
	D5									
30	FCL D1									
	FCL D2	1.5	1.600	11.0	6.6					
	CLA D3	3.0	1.600	12.0	7.3	2.02*	45.13*	4.04		
	D4							(G)		
	D5									
31	D1									
	D2									
	D3									
	D4									
	D5									
								Max	NA	NA
								Min	NA	NA
								Avg	NA	NA
								SD	NA	NA

NOTES: = ONLY use the "Time=" column to show the length of time that the total inactivation ratio was less than 1.00.

* Not representative of total log inactivation(s) and/or total inactivation ratio for all disinfection zones; Excluded from statistical summary calculations.

SUBMITTED BY: _____ Certificate No. _____ and Grade: WO0012234, A Date: December 2, 2013

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: November Year: 2013

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	11/4	87	6.90	4.48	35.1	35	1.00			1.00
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
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26										
27										
28										
29										
30										
31										
Avg		86.70	6.90	4.48	35.07		1.00			1.00
Max		86.70	6.90	4.48	35.07		1.00			1.00
Min		86.70	6.90	4.48	35.07		1.00			1.00

TOTAL ORGANIC CARBON (TOC) REMOVAL SUMMARY

TOC Summary					Monthly Compliance Ratio
Raw Water Alkalinity	Raw Water TOC	Treated Water TOC	TOC % Removal	ACC # used	
87	6.90	4.48	35.1	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: December 2, 2013

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: November Year: 2013

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		
	6.90	10/2012	11/2012	12/2012	01/2013	02/2013	03/2013	04/2013	05/2013	06/2013	07/2013	08/2013	09/2013
	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		
	4.48	10/2012	11/2012	12/2012	01/2013	02/2013	03/2013	04/2013	05/2013	06/2013	07/2013	08/2013	09/2013
	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)												
	Current Month TOC	Q1			Q2			Q3			Q4		
		10/2012	11/2012	12/2012	01/2013	02/2013	03/2013	04/2013	05/2013	06/2013	07/2013	08/2013	09/2013
	Average Raw Water TOC												
	Quarterly Average												
	RAA												
	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 2013: <input type="text"/> mg/L HAA5 RAA for the 4 quarter that end September 2013: <input type="text"/> 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 2013: <input type="text"/> mg/L HAA5 RAA for the 4 quarters that end September 2013: <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		
		10/2012	11/2012	12/2012	01/2013	02/2013	03/2013	04/2013	05/2013	06/2013	07/2013	08/2013	09/2013
	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)												
	(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:	In Plant			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.								
		By Finished Water SUVA Jar Test											
	Current Month SUVA	Q1			Q2			Q3			Q4		
		10/2012	11/2012	12/2012	01/2013	02/2013	03/2013	04/2013	05/2013	06/2013	07/2013	08/2013	09/2013
	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		
		10/2012	11/2012	12/2012	01/2013	02/2013	03/2013	04/2013	05/2013	06/2013	07/2013	08/2013	09/2013
	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	10/2012	11/2012	12/2012	01/2013	02/2013	03/2013	04/2013	05/2013	06/2013	07/2013	08/2013	09/2013
	Monthly Raw Mg Hardness												
	Treated												
	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: December 2, 2013

STEP 2 JAR TEST REPORT

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

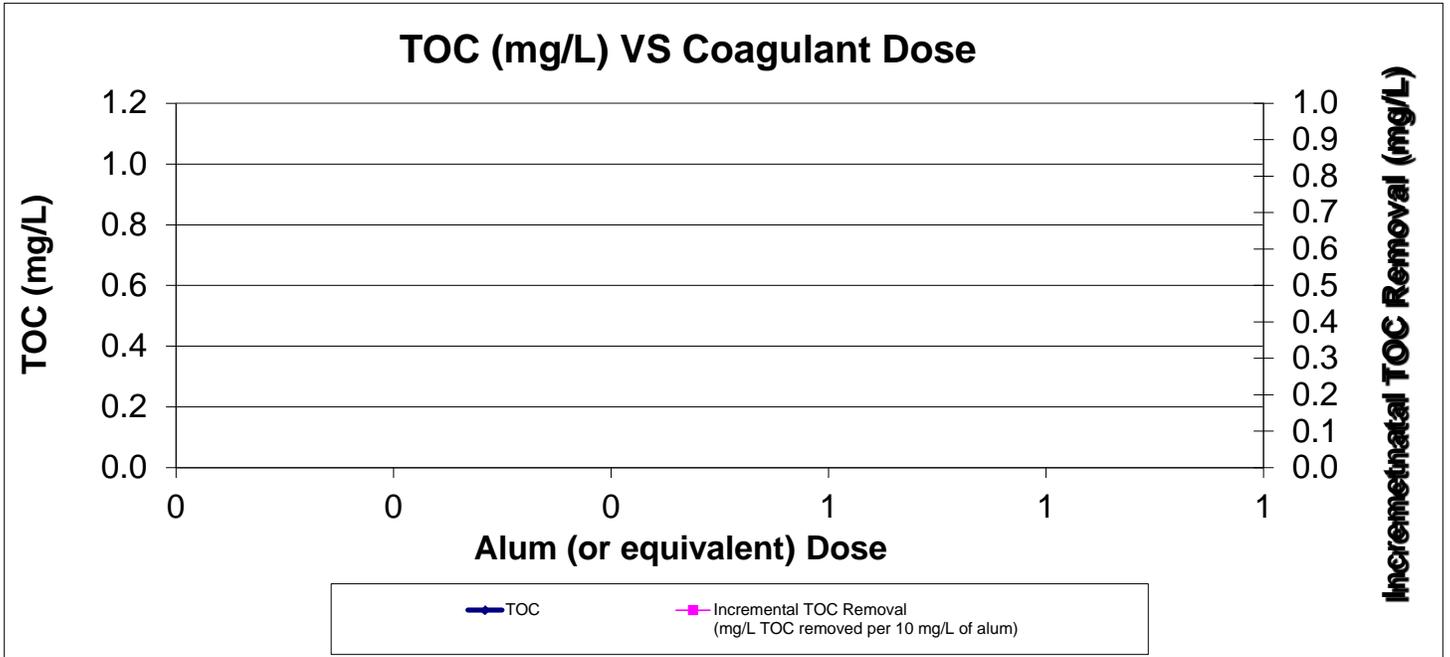
PUBLIC WATER SYSTEM NAME: City Of Corsicana
 PWS ID No.: 1750002

PLANT NAME OR NUMBER: Lake Halbert WTP
 DATE OF JAR TEST: _____

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)

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)

JAR TEST RESULTS									
Jar No.	COAGULANT		BASE		Alkalinity (mg/L as CaCO ₃)	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									
1									
2									
3									
4									
5					Target pH (based on raw water alkalinity)				
6									
7									
8									
9									
10									
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:				



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