

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 2010

Certificate No. & Grade: WO0012234, A

Date: July 1, 2010

TREATMENT PLANT PERFORMANCE

Total number of turbidity readings:	<u>159</u>	Number of 4-hour periods when plant was off-line:	<u>21</u>
Number of readings above 0.10 NTU:	<u>18</u>	Number of 4-hour periods when plant was on-line	
Number of readings above 0.3 NTU:	<u>0</u>	but turbidity data was not collected:	<u>0</u>
Number of readings above 0.5 NTU:	<u>0</u>	Number of days when plant was on-line	
Number of readings above 1.0 NTU:	<u>0</u>	but individual filter turbidity data was not collected:	<u>0</u>
Maximum allowable turbidity level:	<u>0.3</u>	Number of days with readings above 1.0 NTU:	<u>0</u> (2)
Percentage of readings above this limit:	<u>0.0</u> % (1)	Number of days with readings above 5.0 NTU:	<u>0</u> (3)

Statistical
Summary

Maximum turbidity reading:	<u>0.17</u> NTU	Average turbidity value:	<u>0.08</u> NTU
Minimum turbidity reading:	<u>0.05</u> NTU	Standard deviation:	<u>0.021</u> NTU
CFE 95 th percentile value:	<u>0.12</u> NTU	IFE 95 th percentile:	<u>0.130</u> NTU

Number of days with a low CT		Average log inactivation for Giardia:	<u>NA</u>
for no more than 4.0 consecutive hours:	<u>0</u>	Average log inactivation for viruses:	<u>NA</u>
Number of days with a low CT		Number of days when profiling data was not collected:	<u>28</u>
for more than 4.0 consecutive hours:	<u>0</u> (4)	Number of days when CT data was not collected:	<u>28</u>

Minimum disinfectant residual required leaving the plant: 0.2 mg/L, measured as Free Chlorine

Number of days with a low residual		Number of days when disinfectant residual	
for no more than 4.0 consecutive hours:	<u>0</u>	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: <u>0.2</u> mg/L, measured as Free Chlorine			
Total number of readings this month:	<u>60</u>	(at least 30 required) (8)	
Average disinfectant residual value:	<u>1.73</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 required because there was at least one treatment technique or monitoring/reporting violation 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.)
Summary Page Addendum (Violations and Public Notices)

PUBLIC WATER

SYSTEM NAME: City Of Corsicana

PLANT NAME

OR NUMBER: Lake Halbert WTP

PWS ID No.: 1750002

Month: June

Year: 2010

PUBLIC NOTICES						
VIOLATION TYPE	DESCRIPTION OF VIOLATION	VIOLATION OCCURRED?	NOTICE TO TCEQ ☒	NOTICE TO CUSTOMER *		VIOLATION DATES
			DATE OF NOTICE	DATE OF NOTICE	PENDING	
TREATMENT TECHNIQUE	Were more than 5.0% of the turbidity readings above the acceptable level? - see (1) on the <i>Summary Page</i>	No				
	Were there any days with turbidity readings above 1.0 NTU? - see (2) on the <i>Summary Page</i>	No				
	Were there any days with turbidity readings above 5.0 NTU? - see (3) on the <i>Summary Page</i>	No				
	Were there any periods when the plant failed to meet the CT requirements for more than 4.0 consecutive hours? - see (4) on the <i>Summary Page</i>	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) on the <i>Summary Page</i>	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) on the <i>Summary Page</i>	No				
MONITORING & REPORTING	Were there any days when the plant failed to report all of the required Combined Filter Effluent (CFE) turbidity readings? - see the <i>Turbidity Data Page</i>	No				
	Were there any days when the plant failed to report all the CT data needed to evaluate the level of microbial inactivation achieved? - see the <i>Disinfection Data Page</i>	Yes				1, 2, 3, 4, 5, 6, 7, 8, 10, 11, 12, 13, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30,
	Were there any days when the plant failed to report the minimum disinfectant residual entering the distribution system? - see the <i>Turbidity Data Page</i>	No				
	Did the system fail to collect enough samples in the distribution system to meet the minimum disinfectant monitoring requirements? - see (8) on the <i>Summary Page</i>	No				
	Were there any days when the plant failed to report the maximum individual filter effluent (IFE) turbidity level produced by each filter? - see the <i>Filter Data Page</i>	No				
	Were there any days when the plant failed to report the IFE turbidity level 4-hours after beginning a filter run? - see the <i>Filter Data Page</i>	No				
	Did the plant fail to submit a Filter Profile Report if one was required? - see (9) on the <i>Summary page</i>	No				
	Did the plant fail to submit a Filter Assessment Report if one was required? - see (10) on the <i>Summary Page</i>	No				
	Did the plant fail to submit a Comprehensive Performance Evaluation Request if one was required? - see (11) on the <i>Summary Page</i>	No				
	Did the plant fail to collect at least one Total Organic Carbon sample set? - see <i>TOCMOR Page</i>	No				

☒ Treatment technique violation notices are due no later than the end of the next business day. Please include a copy if possible.

* Copies of each Public Notice must accompany this report if they have already been issued.

SUMMITTED BY: _____

Certificate No.
and Grade: WO0012234, A

Date: July 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.)
Turbidity Data Page

PUBLIC WATER SYSTEM NAME: <u>City Of Corsicana</u>	PLANT NAME OR NUMBER: <u>Lake Halbert WTP</u>
PWS ID No.: <u>1750002</u>	Connections: <u>10,723</u>
Month: <u>June</u> Year: <u>2010</u>	Population: <u>28,500</u>

					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	3.050	3.000	65	106							0.13	0.12	0.13	0.09	0.08	0.07	2.0	
2	2.240	1.907	48	107							0.09	0.10	0.15	0.15	0.10	0.10	2.6	
3	1.200	1.179	36	111							X	X	0.14	0.12	0.11	0.10	2.8	
4	1.398	1.290	29	109							0.09	0.09	0.09	0.09	0.08	0.08	2.0	
5	2.272	2.015	37	109							0.09	0.09	0.12	0.09	0.07	0.08	2.6	
6	2.647	1.940	43	106							0.06	0.08	0.09	0.08	0.06	0.07	3.0	
7	2.321	2.088	33	106							0.12	0.11	0.07	0.08	0.08	0.07	2.6	
8	1.853	1.575	28	110							0.12	0.09	0.07	0.08	0.08	0.07	3.2	
9	0.000	0.000	X	X	X	X					X	X	X	X	X	X	X	
10	1.598	1.289	26	111							X	X	X	0.17	0.11	0.07	2.0	
11	2.093	1.889	33	109							0.08	0.09	0.08	X	0.09	0.10	2.7	
12	2.100	2.006	39	106							0.10	0.08	0.08	0.07	0.09	0.05	2.4	
13	2.088	1.879	40	102							0.06	0.05	0.06	0.05	0.05	0.05	2.8	
14	0.000	0.000	X	X	X	X					X	X	X	X	X	X	X	
15	2.984	2.610	37	102							0.09	0.09	0.10	0.07	0.06	0.06	2.1	
16	2.262	1.867	38	107							0.07	0.07	0.10	0.10	0.08	0.07	3.1	
17	1.852	0.562	38	110							0.09	0.06	0.10	0.06	0.06	0.08	3.0	
18	2.651	2.501	24	110							0.08	0.08	0.12	0.11	0.06	0.06	2.8	
19	3.100	3.047	31	110							0.07	0.07	0.07	0.06	0.05	0.08	3.0	
20	1.665	1.432	36	104							0.06	0.06	0.06	0.06	0.05	0.06	3.1	
21	1.500	1.481	51	107							0.08	0.08	0.12	0.11	0.10	0.07	2.9	
22	2.004	1.804	51	108							0.06	0.07	0.09	0.07	0.06	0.06	3.1	
23	2.862	2.691	51	107							0.07	0.06	0.06	0.06	0.06	0.06	3.2	
24	2.228	1.985	44	110							0.09	0.08	0.07	0.07	0.07	0.06	3.2	
25	0.721	0.604	41	115							0.06	0.08	X	X	X	0.08	3.7	
26	1.737	1.517	24	114							0.10	0.10	0.09	0.08	0.06	0.08	3.8	
27	2.360	2.252	33	108							0.08	0.07	0.07	0.07	0.08	0.08	3.5	
28	2.440	2.179	33	109							0.08	0.08	0.10	0.07	0.06	0.06	3.7	
29	2.331	1.906	35	106							0.08	0.08	0.08	0.07	0.07	0.07	3.5	
30	1.800	1.765	32	106							0.08	0.07	0.10	0.10	0.09	0.08	3.0	
31																		
Total	59.357	52.260	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.															
Avg	1.979	1.742																
Max	3.100	3.047																
Min	0.000	0.000																

SUBMITTED BY: _____	Certificate No. and Grade: <u>WO0012234, A</u>	Date: <u>July 1, 2010</u>
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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:

June

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	Max	4 Hrs
1	0.09	X	0.13	0.13	0.09	X	0.07	0.07												
2	0.14	0.14	0.12	0.12	0.15	0.15	0.11	X												
3	0.09	0.09	0.15	0.12	0.11	0.10	0.07	0.05												
4	0.06	X	0.08	0.08	0.08	X	X	X												
5	0.10	X	0.08	X	0.08	0.08	0.05	0.04												
6	0.10	0.10	0.13	0.13	0.08	X	0.06	X												
7	0.11	X	0.13	X	0.06	X	0.05	X												
8	0.10	0.08	0.12	0.09	0.12	0.12	0.05	X												
9	X	X	X	X	X	X	X	X												
10	0.07	0.07	X	X	0.10	0.10	0.05	0.03												
11	0.06	X	0.15	0.15	0.07	0.05	0.10	0.07												
12	0.07	0.07	X	X	0.05	X	0.10	X												
13	0.05	X	X	X	0.07	0.07	0.07	X												
14	X	X	X	X	X	X	X	X												
15	0.08	0.08	0.13	0.13	0.05	0.05	0.06	0.05												
16	0.05	X	0.08	X	0.04	X	0.06	X												
17	X	X	0.09	0.09	0.04	0.04	0.08	0.08												
18	0.04	0.04	0.10	X	0.04	0.03	0.10	X												
19	0.08	0.08	0.09	X	0.04	X	0.08	X												
20	X	X	0.12	0.11	0.07	0.07	0.07	X												
21	X	X	0.09	X	0.06	X	0.06	X												
22	X	X	0.06	X	0.04	X	0.05	X												
23	0.08	0.07	0.06	X	0.04	X	0.05	X												
24	0.05	X	0.09	0.09	0.06	0.06	0.06	X												
25	X	X	0.06	0.06	0.05	0.05	0.06	0.06												
26	X	X	0.12	0.12	0.09	X	0.04	X												
27	0.07	0.07	0.06	0.06	X	X	0.09	0.09												
28	0.06	X	0.07	0.06	0.11	0.11	0.09	X												
29	0.08	0.06	0.07	X	X	X	0.08	X												
30	0.06	X	0.05	X	0.05	0.05	0.07	X												
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: July 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: <u>City Of Corsicana</u>	PLANT NAME OR NUMBER: <u>Lake Halbert WTP</u>
PWS ID No.: <u>1750002</u>	Month: <u>June</u> Year: <u>2010</u>

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									
Date	DISINFECTION PROCESS DATA								
	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
1	NA D1								
	FCL D2	3.8	4.000	27.0	6.9				
	FCL D3	3.0	4.000	27.0	7.2				
	D4								
	D5								
2	NA D1								
	FCL D2	3.6	2.400	28.0	6.9				
	FCL D3	3.5	2.400	28.0	7.2				
	D4								
	D5								
3	NA D1								
	FCL D2	3.5	2.400	27.0	7.2				
	FCL D3	3.1	2.400	28.0	7.6				
	D4								
	D5								
4	NA D1								
	FCL D2	3.8	1.700	28.0	7.0				
	FCL D3	3.1	1.700	27.0	7.8				
	D4								
	D5								
5	NA D1								
	FCL D2	2.6	2.500	27.0	7.2				
	FCL D3	3.2	2.500	28.0	7.6				
	D4								
	D5								
6	NA D1								
	FCL D2	3.7	2.500	28.0	7.2				
	FCL D3	3.1	2.500	28.0	7.6				
	D4								
	D5								
7	NA D1								
	FCL D2	3.4	2.300	28.0	7.2				
	FCL D3	3.2	2.300	28.0	7.6				
	D4								
	D5								
8	NA D1								
	FCL D2	3.6	2.300	28.0	7.1				
	FCL D3	3.5	2.300	29.0	7.5				
	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	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	D4								
	D5								
10	NA D1								
	FCL D2	3.3	2.400	26.0	7.2				
	FCL D3	2.0	2.400	26.0	7.6				
	D4								
	D5								
11	NA D1								
	FCL D2	3.8	2.400	27.0	7.0				
	FCL D3	3.7	2.400	28.0	7.7				
	D4								
	D5								
12	NA D1								
	FCL D2	4.0	2.400	26.0	7.0				
	FCL D3	3.9	2.400	27.0	7.7				
	D4								
	D5								
13	NA D1								
	FCL D2	3.2	2.400	29.0	7.3				
	FCL D3	3.4	2.400	29.0	7.4				
	D4								
	D5								
14	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	D4								
	D5								
15	NA D1								
	FCL D2	3.3	3.000	29.0	7.2				
	FCL D3	3.7	3.000	29.0	7.3				
	D4								
	D5								
16	NA D1								
	FCL D2	1.0	3.000	29.0	7.2				
	FCL D3	3.5	3.000	29.0	7.3				
	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: <u>WO0012234, A</u>	Date: <u>July 1, 2010</u>
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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: <u>City Of Corsicana</u> PWS ID No.: <u>1750002</u>	PLANT NAME OR NUMBER: <u>Lake Halbert WTP</u> Month: <u>June</u> Year: <u>2010</u>
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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 ₁₀ (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	1.0	1.800	29.0	7.2				
	FCL D3	3.2	1.800	29.0	7.4				
	D4								
	D5								
18	NA D1								
	FCL D2	1.2	3.000	29.0	7.4				
	FCL D3	3.6	3.000	29.0	7.4				
	D4								
	D5								
19	NA D1								
	FCL D2	1.0	3.000	29.0	7.1				
	FCL D3	3.0	3.000	29.0	7.6				
	D4								
	D5								
20	NA D1								
	FCL D2	1.0	2.000	29.0	7.0				
	FCL D3	3.2	2.000	30.0	7.2				
	D4								
	D5								
21	NA D1								
	FCL D2	1.0	2.000	30.0	7.2				
	FCL D3	3.5	2.000	30.0	7.3				
	D4								
	D5								
22	NA D1								
	FCL D2	1.1	2.000	30.0	7.0				
	FCL D3	3.5	2.000	30.0	7.3				
	D4								
	D5								
23	NA D1								
	FCL D2	1.0	3.200	29.0	6.9				
	FCL D3	3.6	3.200	29.0	7.4				
	D4								
	D5								
24	NA D1								
	FCL D2	1.2	3.200	29.0	7.0				
	FCL D3	3.5	3.200	30.0	7.4				
	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	1.0	2.100	29.0	6.9				
	FCL D3	3.7	2.100	30.0	7.2				
	D4								
	D5								
26	NA D1								
	FCL D2	1.3	2.100	30.0	6.9				
	FCL D3	4.0	2.100	30.0	7.4				
	D4								
	D5								
27	NA D1								
	FCL D2	1.2	2.400	30.0	7.2				
	FCL D3	3.8	2.400	31.0	7.5				
	D4								
	D5								
28	NA D1								
	FCL D2	1.3	2.400	30.0	7.0				
	FCL D3	3.7	2.400	30.0	7.6				
	D4								
	D5								
29	NA D1								
	FCL D2	1.5	2.400	30.0	7.2				
	FCL D3	3.5	2.400	31.0	7.5				
	D4								
	D5								
30	NA D1								
	FCL D2	1.4	2.400	30.0	7.3				
	FCL D3	3.9	2.400	30.0	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: <u>WO0012234, A</u>	Date: <u>July 1, 2010</u>
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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: June 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	calculated	Please attach the p3-Step2 worksheet	calculated	calculated
1	6/1	100	5.07	3.85	24.1	35	0.69	17.2	1.4	1.40
2										
3										
4										
5										
6										
7										
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28										
29										
30										
31										
Avg		100.00	5.07	3.85	24.06		0.69		1.4	1.40
Max		100.00	5.07	3.85	24.06		0.69		1.4	1.40
Min		100.00	5.07	3.85	24.06		0.69		1.4	1.40

TOTAL ORGANIC CARBON (TOC) REMOVAL SUMMARY

TOC Summary: Don't forget to include a copy of your P.8-TOC Step 2 worksheet with your report.					Monthly Compliance Ratio
Raw Water Alkalinity	Raw Water TOC	Treated Water TOC	TOC % Removal	ACC # used	
100	5.07	3.85	24.1	NA	1.40

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 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: June 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																																																																											
	5.07																																																																											
	Average Raw Water TOC																																																																											
	Quarterly Average RAA																																																																											
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Month/Year	07/2009	08/2009	09/2009	10/2009	11/2009	12/2009	01/2010	02/2010	03/2010	04/2010	05/2010	06/2010																																																																

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																																																																											
	3.85																																																																											
	Average Treated Water TOC																																																																											
	Quarterly Average RAA																																																																											
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Month/Year	07/2009	08/2009	09/2009	10/2009	11/2009	12/2009	01/2010	02/2010	03/2010	04/2010	05/2010	06/2010																																																																

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)																																																																																																																		
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="3">Q1</th> <th colspan="3">Q2</th> <th colspan="3">Q3</th> <th colspan="3">Q4</th> </tr> <tr> <th>Month/Year</th> <th>07/2009</th> <th>08/2009</th> <th>09/2009</th> <th>10/2009</th> <th>11/2009</th> <th>12/2009</th> <th>01/2010</th> <th>02/2010</th> <th>03/2010</th> <th>04/2010</th> <th>05/2010</th> <th>06/2010</th> </tr> <tr> <td></td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>												Q1			Q2			Q3			Q4			Month/Year	07/2009	08/2009	09/2009	10/2009	11/2009	12/2009	01/2010	02/2010	03/2010	04/2010	05/2010	06/2010																																																																														
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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 June 2010: mg/L HAA5 RAA for the 4 quarter that end June 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 June 2010: mg/L HAA5 RAA for the 4 quarters that end June 2010: mg/L											
	AND only chlorine is used in the whole plant and distribution system. Chlorine only?:											
	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) (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.)																																																													
	Current Month SUVA																																																													
	Monthly Raw Water SUVA																																																													
	Quarterly Average RAA																																																													
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="3">Q1</th> <th colspan="3">Q2</th> <th colspan="3">Q3</th> <th colspan="3">Q4</th> </tr> <tr> <th>Month/Year</th> <th>07/2009</th> <th>08/2009</th> <th>09/2009</th> <th>10/2009</th> <th>11/2009</th> <th>12/2009</th> <th>01/2010</th> <th>02/2010</th> <th>03/2010</th> <th>04/2010</th> <th>05/2010</th> <th>06/2010</th> </tr> <tr> <td></td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>												Q1			Q2			Q3			Q4			Month/Year	07/2009	08/2009	09/2009	10/2009	11/2009	12/2009	01/2010	02/2010	03/2010	04/2010	05/2010	06/2010																									
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Month/Year	07/2009	08/2009	09/2009	10/2009	11/2009	12/2009	01/2010	02/2010	03/2010	04/2010	05/2010	06/2010																																																		

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 By Finished Water SUVA Jar Test																																																													
	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.																																																													
	Certified Operators Signature/ Certificate Number / Date																																																													
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="3">Q1</th> <th colspan="3">Q2</th> <th colspan="3">Q3</th> <th colspan="3">Q4</th> </tr> <tr> <th>Month/Year</th> <th>07/2009</th> <th>08/2009</th> <th>09/2009</th> <th>10/2009</th> <th>11/2009</th> <th>12/2009</th> <th>01/2010</th> <th>02/2010</th> <th>03/2010</th> <th>04/2010</th> <th>05/2010</th> <th>06/2010</th> </tr> <tr> <td></td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>												Q1			Q2			Q3			Q4			Month/Year	07/2009	08/2009	09/2009	10/2009	11/2009	12/2009	01/2010	02/2010	03/2010	04/2010	05/2010	06/2010																									
Q1			Q2			Q3			Q4																																																					
Month/Year	07/2009	08/2009	09/2009	10/2009	11/2009	12/2009	01/2010	02/2010	03/2010	04/2010	05/2010	06/2010																																																		

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																																																													
	Monthly Treated Alkalinity																																																													
	Quarterly Average RAA																																																													
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="3">Q1</th> <th colspan="3">Q2</th> <th colspan="3">Q3</th> <th colspan="3">Q4</th> </tr> <tr> <th>Month/Year</th> <th>07/2009</th> <th>08/2009</th> <th>09/2009</th> <th>10/2009</th> <th>11/2009</th> <th>12/2009</th> <th>01/2010</th> <th>02/2010</th> <th>03/2010</th> <th>04/2010</th> <th>05/2010</th> <th>06/2010</th> </tr> <tr> <td></td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>												Q1			Q2			Q3			Q4			Month/Year	07/2009	08/2009	09/2009	10/2009	11/2009	12/2009	01/2010	02/2010	03/2010	04/2010	05/2010	06/2010																									
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Month/Year	07/2009	08/2009	09/2009	10/2009	11/2009	12/2009	01/2010	02/2010	03/2010	04/2010	05/2010	06/2010																																																		

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																																																													
	Raw																																																													
	Treated																																																													
	Removal																																																													
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="3">Q1</th> <th colspan="3">Q2</th> <th colspan="3">Q3</th> <th colspan="3">Q4</th> </tr> <tr> <th>Month/Year</th> <th>07/2009</th> <th>08/2009</th> <th>09/2009</th> <th>10/2009</th> <th>11/2009</th> <th>12/2009</th> <th>01/2010</th> <th>02/2010</th> <th>03/2010</th> <th>04/2010</th> <th>05/2010</th> <th>06/2010</th> </tr> <tr> <td></td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>												Q1			Q2			Q3			Q4			Month/Year	07/2009	08/2009	09/2009	10/2009	11/2009	12/2009	01/2010	02/2010	03/2010	04/2010	05/2010	06/2010																										
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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 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

PLANT NAME

OR NUMBER: Lake Halbert WTP

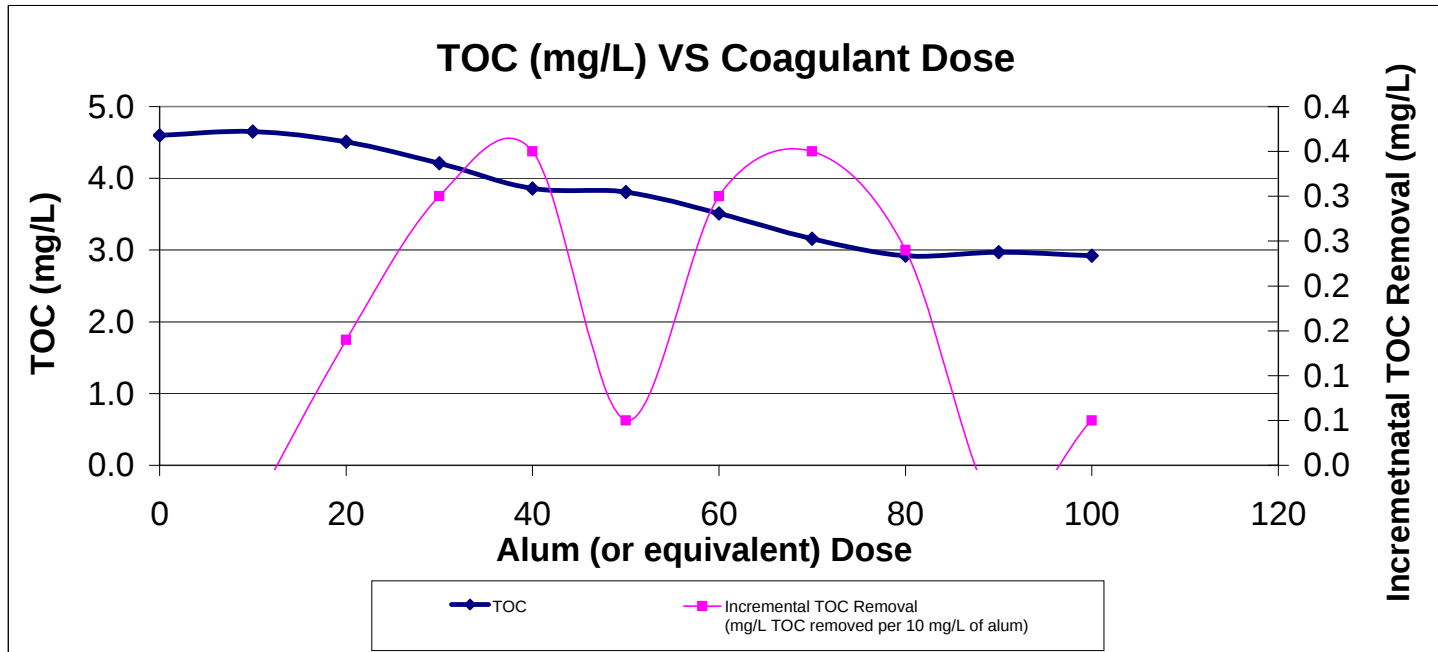
PWS ID No.: 1750002

DATE OF JAR TEST: June 23, 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 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					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	0.1	2.0
3	30	3.00				7.1	4.2	0.3	8.5
4	40	4.00				7.0	3.9	0.4	16.1
5	50	5.00				6.8	3.8	0.0	17.2
6	60	6.00				6.7	3.5	0.3	23.7
7	70	7.00				6.6	3.2	0.4	31.3
8	80	8.00				6.5	2.9	0.2	36.5
9	90	9.00			6.3	6.4	3.0	-0.1	bad data point
10	100	10.00				6.3	2.9	0.1	36.5
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 1 PODR	
					More than one PODR found; please enter correct PODR value:			17.2%	



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