

# 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: Navarro Mills

I certify that I am familiar with the information contained in this report and that,  
to the best of my knowledge, the information is true, complete, and accurate.

PWS ID No.: 1750002

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

Report for

the Month of: November 2010

Certificate No. & Grade: WO0004220, A

Date: December 1, 2010

## TREATMENT PLANT PERFORMANCE

Total number of turbidity readings: <u>180</u>	Number of 4-hour periods when plant was off-line: <u>0</u>
Number of readings above 0.10 NTU: <u>105</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>0.21</u> NTU	Average turbidity value: <u>0.11</u> NTU
Minimum turbidity reading: <u>0.06</u> NTU	Standard deviation: <u>0.025</u> NTU
CFE 95 <sup>th</sup> percentile value: <u>0.16</u> NTU	IFE 95 <sup>th</sup> percentile: <u>0.239</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>30</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: <u>0.5</u> 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>2.08</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  
 PWS ID No.: 1750002  
 Month: November Year: 2010

PLANT NAME OR NUMBER: Navarro Mills  
 Connections: 10,806  
 Population: 28,500

PERFORMANCE DATA																		
Date	Raw Water Pumpage (MGD)	Treated Water Pumpage (MGD)	RAW WATER ANALYSES		SETTLED WATER TURBIDITY (Mandatory 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	6.030	5.581	25	99	0.5	0.5	1.0	0.6	0.6	0.5	0.08	0.07	0.06	0.06	0.06	0.07	2.5	
2	6.020	5.613	26	99	0.5	0.5	0.7	0.6	0.5	0.5	0.08	0.10	0.10	0.10	0.11	0.13	2.9	
3	4.830	4.200	25	100	0.6	0.5	0.8	0.6	0.6	0.6	0.11	0.10	0.10	0.11	0.10	0.10	2.9	
4	4.900	4.925	23	100	0.5	0.5	0.8	0.7	0.6	0.5	0.10	0.10	0.12	0.12	0.10	0.10	2.5	
5	5.440	4.400	23	99	0.5	0.6	0.8	0.6	0.6	0.5	0.11	0.11	0.09	0.09	0.09	0.09	2.4	
6	4.840	4.957	27	100	0.5	0.8	0.8	0.8	0.8	0.7	0.11	0.12	0.10	0.10	0.12	0.12	2.4	
7	4.850	4.808	29	100	0.6	0.8	0.9	1.0	0.7	0.8	0.11	0.11	0.09	0.09	0.10	0.11	2.1	
8	5.070	4.651	29	100	0.7	0.7	1.1	0.9	0.8	0.7	0.10	0.11	0.08	0.08	0.08	0.08	2.7	
9	4.860	4.480	27	100	0.6	0.6	0.9	0.8	0.8	0.6	0.08	0.08	0.08	0.08	0.08	0.08	2.9	
10	4.840	4.201	26	101	0.5	0.7	0.8	0.7	0.7	0.6	0.09	0.09	0.09	0.10	0.10	0.10	3.0	
11	4.850	4.363	28	100	0.5	0.6	0.7	0.7	0.7	0.6	0.10	0.11	0.10	0.10	0.10	0.11	3.1	
12	4.800	4.533	28	100	0.6	0.7	0.9	0.9	0.8	0.7	0.11	0.11	0.11	0.11	0.12	0.12	3.0	
13	4.800	4.494	26	102	0.5	0.6	0.8	0.7	0.7	0.7	0.13	0.13	0.12	0.13	0.12	0.12	3.1	
14	4.830	4.324	24	102	0.5	0.6	0.6	0.7	0.6	0.6	0.13	0.12	0.10	0.11	0.12	0.11	3.1	
15	5.900	5.186	24	102	0.5	0.5	0.7	0.6	0.7	0.5	0.11	0.10	0.09	0.09	0.09	0.10	3.1	
16	5.830	5.214	24	100	0.5	0.5	0.8	0.7	0.6	0.6	0.09	0.10	0.07	0.07	0.08	0.08	2.9	
17	4.810	4.774	22	99	0.5	0.5	0.8	0.7	0.6	0.6	0.08	0.09	0.07	0.07	0.08	0.08	2.8	
18	4.940	3.919	24	101	0.5	1.0	0.7	0.7	0.7	0.6	0.09	0.10	0.10	0.11	0.10	0.11	2.8	
19	4.990	4.865	24	100	0.7	0.6	1.0	0.9	0.8	0.7	0.10	0.10	0.11	0.11	0.10	0.12	2.9	
20	4.980	4.462	25	104	0.6	0.8	1.0	0.8	0.9	0.7	0.10	0.10	0.11	0.13	0.12	0.13	2.9	
21	4.960	4.398	24	102	0.6	0.9	0.9	0.7	0.7	0.7	0.13	0.12	0.12	0.12	0.13	0.13	2.8	
22	5.700	5.459	26	103	0.6	0.6	1.0	0.8	0.8	0.6	0.13	0.12	0.11	0.12	0.11	0.12	2.9	
23	6.410	5.229	28	103	0.7	0.7	0.9	0.8	0.8	0.8	0.13	0.14	0.12	0.12	0.12	0.13	2.7	
24	6.310	5.909	28	104	0.7	0.7	0.9	0.8	0.7	0.7	0.12	0.13	0.12	0.12	0.15	0.13	2.7	
25	6.330	5.050	28	104	0.7	0.8	0.8	0.9	0.8	0.8	0.14	0.13	0.13	0.13	0.13	0.12	2.7	
26	5.290	5.305	31	103	0.6	0.6	0.8	0.9	0.8	0.7	0.17	0.16	0.21	0.17	0.16	0.16	1.1	
27	4.860	4.567	33	108	0.6	0.8	0.9	0.8	0.8	0.7	0.17	0.18	0.15	0.16	0.15	0.15	1.8	
28	4.860	4.742	31	107	0.6	0.8	0.9	0.8	0.7	0.6	0.16	0.16	0.14	0.14	0.14	0.15	2.7	
29	5.490	4.661	29	107	0.6	0.8	1.0	0.8	0.8	0.7	0.14	0.13	0.12	0.12	0.15	0.14	1.2	
30	6.580	6.295	28	105	0.7	1.0	0.9	0.8	0.8	0.8	0.14	0.15	0.13	0.12	0.12	0.13	2.2	
31																		
<b>Total</b>	159.200	145.565																
<b>Avg</b>	5.307	4.852																
<b>Max</b>	6.580	6.295																
<b>Min</b>	4.800	3.919																

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: WO0004220, A Date: December 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: Navarro Mills  
Month: November Year: 2010

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	0.11	x	0.11	x	x	x	0.18	0.12	0.11	x	x	x								
2	0.12	x	0.12	x	0.25	0.18	0.15	x	0.12	x	x	x								
3	x	x	0.12	x	0.18	0.16	0.14	x	0.11	x	x	x								
4	x	x	x	x	0.15	x	0.12	x	0.10	x	x	x								
5	x	x	x	x	0.13	x	0.11	x	0.14	x	0.29	0.13								
6	x	x	x	x	0.12	x	0.11	x	x	x	0.13	x								
7	x	x	x	x	0.11	x	0.10	x	x	x	0.11	x								
8	x	x	x	x	0.10	x	0.09	x	x	x	0.10	x								
9	x	x	x	x	0.11	x	0.10	x	x	x	0.11	x								
10	x	x	0.19	0.16	0.14	x	x	x	x	x	0.14	x								
11	0.23	0.18	0.17	x	0.14	x	x	x	x	x	0.17	x								
12	0.18	x	0.15	x	x	x	x	x	x	x	0.12	x								
13	0.15	x	0.14	x	x	x	x	x	x	x	0.11	x								
14	0.12	x	0.12	x	x	x	x	x	0.23	0.12	0.11	x								
15	0.11	x	0.10	x	0.30	0.10	x	x	0.11	x	x	x								
16	0.09	x	0.08	x	0.10	x	x	x	0.08	x	x	x								
17	0.13	x	0.12	x	x	x	x	x	0.13	x	x	x								
18	0.15	x	0.14	x	0.14	x	x	x	0.14	x	x	x								
19	0.14	x	x	x	0.14	x	x	x	0.13	x	x	x								
20	0.15	x	x	x	0.15	x	0.22	0.18	0.13	x	x	x								
21	x	x	x	x	0.15	x	0.18	x	0.14	x	x	x								
22	x	x	x	x	0.15	x	0.16	x	0.13	x	0.23	0.17								
23	x	x	x	x	0.14	x	0.15	x	x	x	0.16	x								
24	x	x	x	x	0.16	x	0.17	x	x	x	0.17	x								
25	x	x	0.26	0.24	0.17	x	0.21	x	x	x	0.24	x								
26	x	x	0.25	x	x	x	0.19	x	x	x	0.19	x								
27	x	x	0.21	x	x	x	0.16	x	x	x	0.16	x								
28	x	x	0.19	x	x	x	0.15	x	x	x	0.15	x								
29	x	x	0.18	x	x	x	0.15	x	x	x	0.15	x								
30	x	x	0.18	x	0.23	0.18	0.15	x	x	x	0.15	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Number of days with event(s) above 1.0 NTU this month	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Number of days with event(s) above 1.0 NTU last month	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Number of days with event(s) above 1.0 NTU two months ago	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Total number of days with event(s) above 1.0 NTU in three months	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
	Is the plant required to submit a Filter Profile Report?	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
	Is the plant required to submit a Filter Assessment Report?	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
	Is the plant required to submit a Request for Compliance CPE?											N									

SUBMITTED BY: \_\_\_\_\_ Certificate No. \_\_\_\_\_ and Grade: WO0004220, A Date: December 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: Navarro Mills  
Month: November 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)	20.250	20.250	20.250			0.5	2.0
T <sub>10</sub> (minutes)	109.1	13.0	100.0				

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	0.6	6.900	20.0	7.6				
	CLA D3	2.6	6.900	20.0	7.5				
	D4								
	D5								
2	NA D1								
	FCL D2	0.4	7.000	19.0	8.2				
	CLA D3	3.4	7.000	20.0	7.9				
	D4								
	D5								
3	NA D1								
	FCL D2	0.3	4.900	18.0	8.1				
	CLA D3	2.9	4.900	19.0	7.8				
	D4								
	D5								
4	NA D1								
	FCL D2	0.4	4.900	19.0	8.1				
	CLA D3	2.6	4.900	19.0	7.9				
	D4								
	D5								
5	NA D1								
	FCL D2	0.2	5.600	18.0	8.0				
	CLA D3	2.5	5.600	18.0	7.8				
	D4								
	D5								
6	NA D1								
	FCL D2	0.5	4.900	16.0	8.1				
	CLA D3	2.4	4.900	17.0	7.9				
	D4								
	D5								
7	NA D1								
	FCL D2	0.5	4.900	15.0	8.0				
	CLA D3	2.1	4.900	17.0	7.8				
	D4								
	D5								
8	NA D1								
	FCL D2	0.5	4.900	16.0	8.1				
	CLA D3	2.9	4.900	16.0	7.9				
	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	0.5	4.900	16.0	8.1				
	CLA D3	3.1	4.900	16.0	7.9				
	D4								
	D5								
10	NA D1								
	FCL D2	0.6	4.900	17.0	8.1				
	CLA D3	3.0	4.900	17.0	7.9				
	D4								
	D5								
11	NA D1								
	FCL D2	0.6	4.900	18.0	8.2				
	CLA D3	3.1	4.900	18.0	8.0				
	D4								
	D5								
12	NA D1								
	FCL D2	0.7	4.900	18.0	8.1				
	CLA D3	3.1	4.900	18.0	7.8				
	D4								
	D5								
13	NA D1								
	FCL D2	0.7	4.800	17.0	8.1				
	CLA D3	3.1	4.800	18.0	7.9				
	D4								
	D5								
14	NA D1								
	FCL D2	0.8	4.900	16.0	8.2				
	CLA D3	3.2	4.900	17.0	8.0				
	D4								
	D5								
15	NA D1								
	FCL D2	0.5	6.600	17.0	8.0				
	CLA D3	3.3	6.600	16.0	7.9				
	D4								
	D5								
16	NA D1								
	FCL D2	0.5	6.500	16.0	7.7				
	CLA D3	3.0	6.500	16.0	7.6				
	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: WO0004220, A Date: December 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: Navarro Mills  
Month: November 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)	20.250	20.250	20.250			0.5	2.0
T <sub>10</sub> (minutes)	109.1	13.0	100.0				

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	0.7	5.000	16.0	7.7				
	CLA D3	2.8	5.000	16.0	7.6				
	D4								
	D5								
18	NA D1								
	FCL D2	0.6	5.000	15.0	8.1				
	CLA D3	2.8	5.000	16.0	7.7				
	D4								
	D5								
19	NA D1								
	FCL D2	0.7	5.000	16.0	8.2				
	CLA D3	2.9	5.000	16.0	7.9				
	D4								
	D5								
20	NA D1								
	FCL D2	0.6	5.000	16.0	8.2				
	CLA D3	2.9	5.000	16.0	8.0				
	D4								
	D5								
21	NA D1								
	FCL D2	0.7	5.000	15.0	8.2				
	CLA D3	2.8	5.000	16.0	7.9				
	D4								
	D5								
22	NA D1								
	FCL D2	0.7	6.400	16.0	8.2				
	CLA D3	3.1	6.400	16.0	8.1				
	D4								
	D5								
23	NA D1								
	FCL D2	0.7	6.500	17.0	8.0				
	CLA D3	2.8	6.500	17.0	7.9				
	D4								
	D5								
24	NA D1								
	FCL D2	0.5	6.400	17.0	8.1				
	CLA D3	3.0	6.400	17.0	7.9				
	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	0.6	6.500	18.0	8.3				
	CLA D3	2.7	6.500	18.0	8.0				
	D4								
	D5								
26	NA D1								
	FCL D2	0.8	6.500	17.0	8.1				
	CLA D3	1.3	6.500	17.0	7.7				
	D4								
	D5								
27	NA D1								
	FCL D2	0.7	4.900	16.0	8.3				
	CLA D3	1.9	4.900	17.0	7.6				
	D4								
	D5								
28	NA D1								
	FCL D2	0.6	4.900	16.0	8.4				
	CLA D3	2.7	4.900	17.0	7.7				
	D4								
	D5								
29	NA D1								
	FCL D2	0.7	6.600	16.0	8.3				
	CLA D3	1.2	6.600	16.0	7.8				
	D4								
	D5								
30	NA D1								
	FCL D2	0.8	6.700	16.0	8.2				
	CLA D3	2.9	6.700	16.0	8.2				
	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: WO0004220, A Date: December 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: Navarro Mills  
 Month: November 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	11/2	104	4.58	3.28	28.4	35	0.81	17.5	1.6	1.62
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
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22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
<b>Avg</b>		104.00	4.58	3.28	28.38		0.81		1.6	1.62
<b>Max</b>		104.00	4.58	3.28	28.38		0.81		1.6	1.62
<b>Min</b>		104.00	4.58	3.28	28.38		0.81		1.6	1.62

### 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	
104	4.58	3.28	28.4	NA	1.62

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: WO0004220, A

Date: December 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: Navarro Mills  
Month: November 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		
	4.58	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		
	3.28	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: WO0004220, A Date: December 1, 2010

# STEP 2 JAR TEST REPORT

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

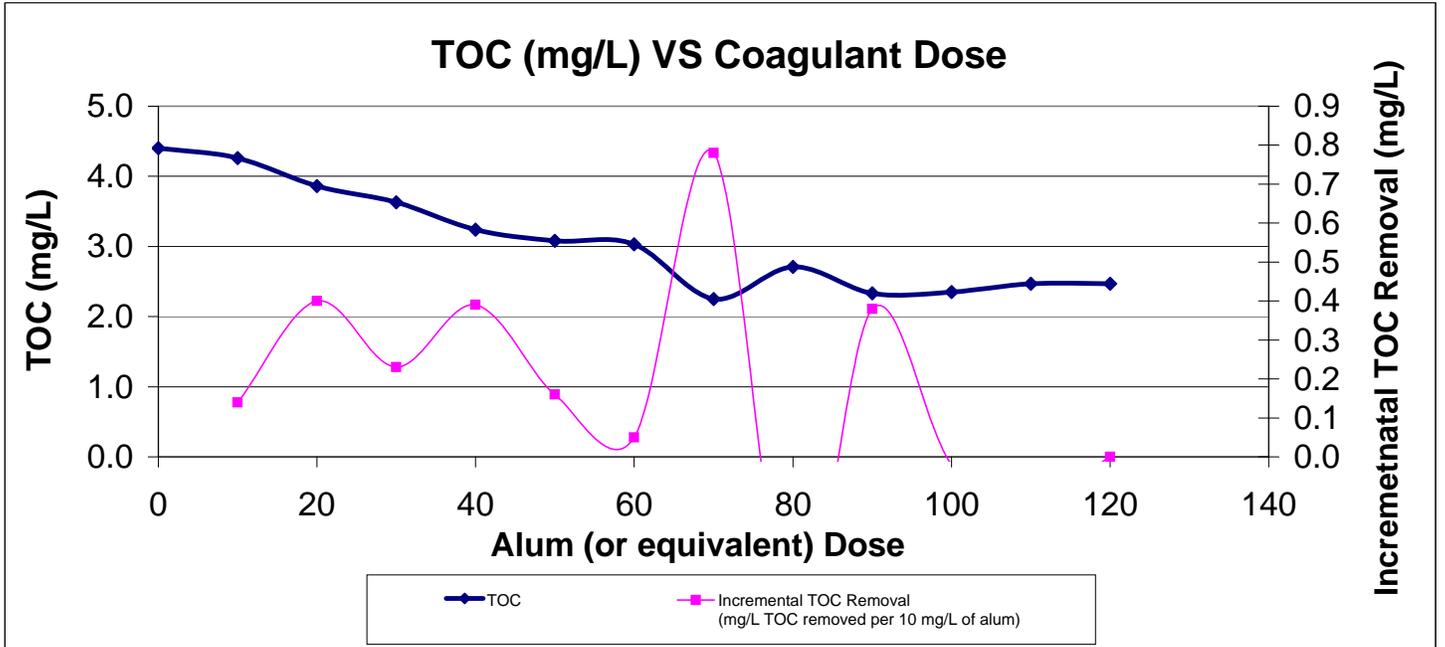
PUBLIC WATER  
 SYSTEM NAME: City of Corsicana  
 PWS ID No.: 1750002

PLANT NAME  
 OR NUMBER: Navarro Mills  
 DATE OF JAR TEST: September 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)
Navarro Mills	Alum	80.00	CL9040	1.00	N/A	0.00	Caustic Soda	18.00

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)
liquid alum	11	N/A	-	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					97	7.8	4.4			
1	10	0.50	1.00	0.00	Target pH (based on raw water alkalinity)	7.4	4.3	0.1	3.2	
2	20	1.00	2.00	0.00		7.1	3.9	0.4	12.3	
3	30	1.50	3.00	0.00		7.0	3.6	0.2	17.5	
4	40	2.00	4.00	0.00		6.9	3.2	0.4	26.4	
5	50	2.50	5.00	0.00		6.8	3.1	0.2	30.0	
6	60	3.00	6.00	0.00		6.7	3.0	0.1	31.1	
7	70	3.50	7.00	0.00		6.6	2.3	0.8	48.9	
8	80	4.00	8.00	0.00		6.5	2.7	-0.5	bad data point	
9	90	4.50	9.00	0.00		6.3	2.3	0.4	47.0	
10	100	5.00	10.00	0.00		6.3	2.4	0.0	bad data point	
11	110	5.50	11.00	0.00	6.3	2.5	-0.1	bad data point		
12	120	6.00	12.00	0.00	6.3	2.5	0.0	43.9		
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:			17.5%		



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: WO0004220, A