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: July 2012

Certificate No. & Grade: WO0004220, A

Date: August 1, 2012

TREATMENT PLANT PERFORMANCE

Total number of turbidity readings:	186	Number of 4-hour periods when plant was off-line:	0
Number of readings above 0.10 NTU:	72	Number of 4-hour periods when plant was on-line	
Number of readings above 0.3 NTU:	0	but turbidity data was not collected:	0
Number of readings above 0.5 NTU:	0	Number of days when plant was on-line	
Number of readings above 1.0 NTU:	0	but individual filter turbidity data was not collected:	0
Maximum allowable turbidity level:	0.3	Number of days with readings above 1.0 NTU:	0 (2)
Percentage of readings above this limit:	0.0 % (1)	Number of days with readings above 5.0 NTU:	0 (3)

Statistical Summary

Maximum turbidity reading:	0.18 NTU	Average turbidity value:	0.10 NTU
Minimum turbidity reading:	0.06 NTU	Standard deviation:	0.027 NTU
CFE 95th percentile value:	0.15 NTU	IFE 95th percentile:	0.285 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:	31
		Number of days when CT data was not collected:	31

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:	61 (at least 31 required) (8)		
Average disinfectant residual value:	1.93	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.

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: Navarro Mills

PWS ID No.: 1750002

Connections: 10,845

Month: July **Year:** 2012

Population: 23,770

PERFORMANCE DATA

Date	Raw Water Pumpage (MGD)	Treated Water Pumpage (MGD)	RAW WATER ANALYSES NTU	RAW WATER ANALYSES Alk.	SETTLED WATER TURBIDITY (Mandatory Data) Basin No. 1	2	3	4	5	6	FINISHED WATER QUALITY Turbidity NTU1	NTU2	NTU3	NTU4	NTU5	NTU6	Lowest Residual	Time=
1	9.560	7.087	12	101	0.4	0.5	0.4	0.4	0.4	0.4	0.09	0.09	0.07	0.07	0.07	0.08	2.7	
2	5.850	6.427	16	98	0.4	0.3	0.4	0.3	0.4	0.4	0.09	0.09	0.10	0.09	0.09	0.08	2.7	
3	9.130	7.864	14	97	0.4	0.5	0.5	0.5	0.4	0.5	0.08	0.08	0.09	0.09	0.10	0.11	2.5	
4	9.080	8.675	12	96	0.5	0.4	0.5	0.6	0.6	0.6	0.15	0.15	0.14	0.14	0.15	0.15	3.2	
5	7.330	6.471	13	98	0.5	0.5	0.5	0.6	0.6	0.6	0.14	0.14	0.16	0.18	0.16	0.15	3.0	
6	7.520	7.785	15	99	0.5	0.5	0.6	0.5	0.5	0.6	0.14	0.13	0.14	0.15	0.15	0.14	2.9	
7	9.280	7.017	17	104	0.6	0.6	0.6	0.7	0.6	0.6	0.18	0.18	0.16	0.16	0.15	0.15	2.8	
8	5.350	4.912	18	104	0.4	0.4	0.4	0.5	0.4	0.4	0.14	0.14	0.14	0.11	0.12	0.13	2.4	
9	4.780	6.041	17	103	0.4	0.3	0.4	0.4	0.4	0.3	0.10	0.10	0.08	0.07	0.07	0.06	2.3	
10	9.510	6.661	19	100	0.5	0.5	0.5	0.5	0.5	0.4	0.08	0.11	0.10	0.10	0.10	0.11	2.4	
11	4.890	5.341	18	101	0.5	0.5	0.4	0.4	0.5	0.4	0.11	0.13	0.12	0.12	0.11	0.11	2.3	
12	6.590	5.193	20	102	0.4	0.4	0.4	0.5	0.4	0.4	0.09	0.11	0.09	0.10	0.09	0.09	2.4	
13	6.650	5.731	24	102	0.3	0.4	0.4	0.4	0.4	0.3	0.08	0.08	0.08	0.06	0.07	0.06	2.3	
14	9.440	7.370	27	104	0.5	0.5	0.6	0.6	0.5	0.5	0.06	0.07	0.08	0.08	0.08	0.07	2.7	
15	4.610	5.480	23	103	0.6	0.7	0.7	0.7	0.7	0.6	0.09	0.10	0.09	0.09	0.10	0.10	2.7	
16	4.660	4.725	25	100	0.9	0.8	1.0	0.7	0.7	0.6	0.11	0.11	0.12	0.13	0.14	0.13	2.4	
17	6.370	5.908	18	103	0.8	0.7	0.8	0.8	0.7	0.8	0.16	0.16	0.14	0.14	0.13	0.12	2.7	
18	9.180	7.686	14	102	0.5	0.5	0.5	0.5	0.6	0.5	0.12	0.13	0.11	0.09	0.09	0.08	3.0	
19	9.000	7.596	12	100	0.4	0.4	0.4	0.4	0.4	0.4	0.08	0.08	0.08	0.09	0.08	0.10	2.9	
20	8.950	7.806	13	99	0.7	0.4	0.4	0.3	0.4	0.4	0.08	0.08	0.09	0.11	0.11	0.08	2.9	
21	5.750	5.943	20	99	0.4	0.3	0.4	0.4	0.4	0.4	0.09	0.10	0.09	0.09	0.09	0.10	2.8	
22	6.310	7.194	18	99	0.3	0.3	0.3	0.4	0.3	0.3	0.08	0.08	0.08	0.06	0.06	0.06	2.3	
23	8.950	7.795	15	97	0.4	0.4	0.4	0.4	0.4	0.4	0.07	0.08	0.07	0.07	0.06	0.06	2.8	
24	8.940	7.704	15	97	0.4	0.4	0.5	0.5	0.4	0.4	0.10	0.10	0.07	0.08	0.08	0.11	2.7	
25	8.940	8.776	18	99	0.5	0.5	0.5	0.5	0.6	0.5	0.09	0.09	0.10	0.10	0.10	0.10	2.7	
26	7.300	6.652	19	100	0.4	0.5	0.5	0.5	0.4	0.5	0.09	0.10	0.11	0.12	0.11	0.11	2.7	
27	7.000	7.709	22	99	0.4	0.4	0.5	0.5	0.4	0.5	0.09	0.09	0.11	0.11	0.11	0.11	2.6	
28	9.070	8.493	27	102	0.5	0.5	0.6	0.6	0.6	0.6	0.11	0.12	0.11	0.12	0.11	0.12	2.9	
29	9.020	8.139	28	97	0.5	0.5	0.6	0.5	0.5	0.5	0.10	0.10	0.10	0.09	0.08	0.07	2.9	
30	8.950	8.913	22	96	0.4	0.5	0.6	0.5	0.5	0.5	0.08	0.09	0.09	0.08	0.07	0.07	2.9	
31	8.990	8.036	24	94	0.5	0.5	0.6	0.6	0.5	0.5	0.08	0.10	0.08	0.08	0.08	0.09	3.0	
Total	236.950	217.130																
Avg	7.644	7.004																
Max	9.560	8.913																
Min	4.610	4.725																

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:** August 1, 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
PLANT NAME OR NUMBER: Navarro Mills
PWS ID No.: 1750002
Month: July **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	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	0.07	x	0.19	0.11	0.14	x	0.13	x	0.12	x	x	x								
2	x	x	0.16	x	0.16	x	0.15	x	0.13	x	x	x								
3	0.19	0.16	0.16	x	0.24	x	0.13	x	0.12	x	0.18	0.15								
4	0.20	x	0.16	x	0.24	x	x	x	x	x	0.19	x								
5	0.20	0.16	x	x	0.24	x	0.31	0.30	x	x	0.19	x								
6	x	x	0.30	0.30	0.21	x	0.25	x	0.28	0.23	0.17	x								
7	0.23	0.18	0.26	x	x	x	0.22	x	0.23	x	0.15	x								
8	0.20	x	0.18	x	x	x	0.17	x	0.17	x	x	x								
9	0.12	x	0.10	x	x	x	0.09	x	0.09	x	x	x								
10	0.15	x	0.14	x	0.20	0.16	0.20	0.19	0.13	x	0.19	0.14								
11	0.11	x	x	x	0.14	x	0.18	x	x	x	0.13	x								
12	x	x	0.19	0.12	0.11	x	0.13	x	x	x	0.09	x								
13	x	x	0.08	x	x	x	0.07	x	0.33	0.09	0.06	x								
14	x	x	0.11	x	0.16	0.12	0.10	x	0.12	x	0.06	x								
15	0.24	0.15	0.22	0.17	0.15	x	0.10	x	0.12	x	x	x								
16	0.27	x	0.21	x	0.32	0.27	0.29	0.23	0.26	x	0.25	0.17								
17	0.37	0.21	0.28	0.10	0.30	x	0.25	x	0.27	x	0.25	x								
18	0.18	x	0.17	x	0.14	x	x	x	0.14	x	0.12	x								
19	0.11	x	0.10	x	0.10	x	0.22	0.16	0.25	x	0.08	x								
20	0.10	x	0.10	x	0.14	x	0.16	x	0.34	x	0.17	0.14								
21	0.09	x	x	x	0.14	x	0.13	x	0.13	x	0.11	x								
22	x	x	x	x	0.10	x	0.09	x	0.10	x	0.08	x								
23	0.16	0.12	x	x	0.10	x	0.09	x	0.09	x	0.08	x								
24	0.13	x	0.23	0.12	0.21	0.15	0.09	x	0.20	x	0.08	x								
25	0.14	x	0.15	x	0.16	x	x	x	0.15	x	0.16	0.14								
26	0.14	x	0.14	x	0.16	x	x	x	x	x	0.15	x								
27	x	x	0.11	x	0.14	x	0.25	0.18	0.23	0.18	0.12	x								
28	0.22	0.19	x	x	0.13	x	0.19	x	0.18	x	0.12	x								
29	0.15	x	0.18	0.15	x	x	0.15	x	0.14	x	0.10	x								
30	0.11	x	0.14	x	x	x	0.11	x	0.10	x	x	x								
31	0.11	x	0.13	x	0.23	0.14	0.11	x	0.10	x	0.20	0.14								

SUMMARY & COMPLIANCE ACTIONS

Criteria	Filter No. 1	2	3	4	5	6	7	8	9	10	Plant
Number of days with event(s) above 0.5 NTU at 4.0 hrs this month	0	0	0	0	0	0					
Number of days with event(s) above 1.0 NTU this month	0	0	0	0	0	0					
Number of days with event(s) above 1.0 NTU last month	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					
Total number of days with event(s) above 1.0 NTU in three months	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
Is the plant required to submit a Filter Profile Report?	N	N	N	N	N	N					
Is the plant required to submit a Filter Assessment Report?	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:** August 1, 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

PLANT NAME OR NUMBER: Navarro Mills

PWS ID No.: 1750002

Month: July **Year:** 2012

DISINFECTION PROCESS PARAMETERS

APPROVED CT STUDY PARAMETERS						PERFORMANCE STANDARDS	
	Disinfection Zones					Log Inactivations	
Parameters	D1	D2	D3	D4	D5	Giardia lamblia Cysts	Viruses
Flow Rate (MGD)	20.250	20.250	20.250			0.5	2.0
T_{10} (minutes)	109.1	13.0	100.0				

PERFORMANCE DATA

Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time=
1	NA *D1*								
	FCL *D2*	0.9	9.700	30.0	7.0				
	CLA *D3*	3.0	9.700	30.0	7.6				
	D4								
	D5								
2	NA *D1*								
	FCL *D2*	0.9	9.600	29.0	7.0				
	CLA *D3*	2.7	9.600	29.0	7.5				
	D4								
	D5								
3	NA *D1*								
	FCL *D2*	0.3	9.200	29.0	6.9				
	CLA *D3*	2.8	9.200	28.0	7.6				
	D4								
	D5								
4	NA *D1*								
	FCL *D2*	0.5	9.200	29.0	6.9				
	CLA *D3*	3.3	9.200	29.0	7.6				
	D4								
	D5								
5	NA *D1*								
	FCL *D2*	0.6	9.200	29.0	6.8				
	CLA *D3*	3.2	9.200	29.0	7.5				
	D4								
	D5								
6	NA *D1*								
	FCL *D2*	0.5	9.400	29.0	7.6				
	CLA *D3*	3.1	9.400	29.0	7.8				
	D4								
	D5								
7	NA *D1*								
	FCL *D2*	0.2	9.400	30.0	6.9				
	CLA *D3*	3.0	9.400	30.0	7.6				
	D4								
	D5								
8	NA *D1*								
	FCL *D2*	0.3	9.500	29.0	6.9				
	CLA *D3*	2.9	9.200	29.0	7.6				
	D4								
	D5								

PERFORMANCE DATA

Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time=
9	NA *D1*								
	FCL *D2*	0.1	4.800	30.0	6.9				
	CLA *D3*	2.4	4.800	29.0	8.0				
	D4								
	D5								
10	NA *D1*								
	FCL *D2*	0.2	9.700	29.0	7.0				
	CLA *D3*	2.4	9.700	29.0	7.5				
	D4								
	D5								
11	NA *D1*								
	FCL *D2*	0.1	5.000	29.0	6.9				
	CLA *D3*	2.3	5.000	29.0	7.7				
	D4								
	D5								
12	NA *D1*								
	FCL *D2*	0.1	9.400	29.0	6.8				
	CLA *D3*	2.4	9.400	29.0	8.0				
	D4								
	D5								
13	NA *D1*								
	FCL *D2*	0.4	9.700	29.0	6.7				
	CLA *D3*	2.6	9.700	29.0	7.7				
	D4								
	D5								
14	NA *D1*								
	FCL *D2*	0.2	9.600	29.0	6.9				
	CLA *D3*	2.8	9.600	29.0	7.2				
	D4								
	D5								
15	NA *D1*								
	FCL *D2*	0.1	4.700	29.0	7.0				
	CLA *D3*	2.8	4.700	29.0	7.6				
	D4								
	D5								
16	NA *D1*								
	FCL *D2*	0.1	4.700	29.0	7.0				
	CLA *D3*	2.8	4.700	28.0	7.8				
	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:** August 1, 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 **PLANT NAME OR NUMBER:** Navarro Mills

PWS ID No.: 1750002 **Month:** July **Year:** 2012

DISINFECTION PROCESS PARAMETERS

APPROVED CT STUDY PARAMETERS						PERFORMANCE STANDARDS	
	Disinfection Zones					Log Inactivations	
Parameters	D1	D2	D3	D4	D5	Giardia lamblia Cysts	Virus
Flow Rate (MGD)	20.250	20.250	20.250			0.5	2.0
T_{10} (minutes)	109.1	13.0	100.0				

PERFORMANCE DATA

Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time=
17	NA *D1*								
	FCL *D2*	0.3	7.000	29.0	6.9				
	CLA *D3*	2.9	7.000	28.0	7.6				
	D4								
	D5								
18	NA *D1*								
	FCL *D2*	0.4	9.400	29.0	6.9				
	CLA *D3*	3.3	9.400	29.0	7.4				
	D4								
	D5								
19	NA *D1*								
	FCL *D2*	0.5	9.200	29.0	6.8				
	CLA *D3*	3.0	9.200	29.0	7.5				
	D4								
	D5								
20	NA *D1*								
	FCL *D2*	0.7	9.200	29.0	6.9				
	CLA *D3*	3.1	9.200	29.0	7.8				
	D4								
	D5								
21	NA *D1*								
	FCL *D2*	0.6	9.000	30.0	6.9				
	CLA *D3*	3.0	9.000	30.0	7.9				
	D4								
	D5								
22	NA *D1*								
	FCL *D2*	0.6	9.100	30.0	7.0				
	CLA *D3*	2.8	9.100	30.0	7.9				
	D4								
	D5								
23	NA *D1*								
	FCL *D2*	0.4	9.100	30.0	6.9				
	CLA *D3*	3.0	9.100	30.0	7.8				
	D4								
	D5								
24	NA *D1*								
	FCL *D2*	0.4	9.100	30.0	6.9				
	CLA *D3*	2.9	9.100	30.0	8.0				
	D4								
	D5								

PERFORMANCE DATA

Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time=
25	NA *D1*								
	FCL *D2*	0.5	9.100	30.0	6.9				
	CLA *D3*	2.7	9.100	30.0	7.9				
	D4								
	D5								
26	NA *D1*								
	FCL *D2*	0.5	8.900	30.0	7.0				
	CLA *D3*	2.8	8.900	30.0	7.9				
	D4								
	D5								
27	NA *D1*								
	FCL *D2*	0.4	9.100	30.0	7.1				
	CLA *D3*	2.7	9.100	30.0	8.2				
	D4								
	D5								
28	NA *D1*								
	FCL *D2*	0.4	9.200	30.0	7.0				
	CLA *D3*	3.0	9.200	30.0	7.6				
	D4								
	D5								
29	NA *D1*								
	FCL *D2*	0.5	9.100	30.0	7.0				
	CLA *D3*	2.9	9.100	30.0	7.5				
	D4								
	D5								
30	NA *D1*								
	FCL *D2*	0.4	9.000	30.0	7.0				
	CLA *D3*	2.9	9.000	30.0	7.6				
	D4								
	D5								
31	NA *D1*								
	FCL *D2*	0.5	9.100	30.0	6.9				
	CLA *D3*	3.1	9.100	30.0	7.7				
	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:** August 1, 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

PLANT NAME OR NUMBER: Navarro Mills

PWS ID No.: 1750002

Month: July **Year:** 2012

Type of treatment: X 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			*calculated*	*calculated from matrix*	*calculated*	*Please attach the p3-Step2 worksheet*	*calculated*	*calculated*
1	7/3	107	4.66	3.56	23.6	35	0.67	Not Amenable	NA	1.00
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
Avg		107.00	4.66	3.56	23.61		0.67		NA	1.00
Max		107.00	4.66	3.56	23.61		0.67		NA	1.00
Min		107.00	4.66	3.56	23.61		0.67		NA	1.00

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	
107	4.66	3.56	23.6	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: WO0004220, A Date: August 1, 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: Navarro Mills
Month: July 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	Month/Year	Q1 07/2011	Q1 08/2011	Q1 09/2011	Q2 10/2011	Q2 11/2011	Q2 12/2011	Q3 01/2012	Q3 02/2012	Q3 03/2012	Q4 04/2012	Q4 05/2012	Q4 06/2012
4.66	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	Month/Year	Q1 07/2011	Q1 08/2011	Q1 09/2011	Q2 10/2011	Q2 11/2011	Q2 12/2011	Q3 01/2012	Q3 02/2012	Q3 03/2012	Q4 04/2012	Q4 05/2012	Q4 06/2012
3.56	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 07/2011	Q1 08/2011	Q1 09/2011	Q2 10/2011	Q2 11/2011	Q2 12/2011	Q3 01/2012	Q3 02/2012	Q3 03/2012	Q4 04/2012	Q4 05/2012	Q4 06/2012
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 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: [ ] **mg/L** **HAA5 RAA for the 4 quarters that end June 2012:** [ ] **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	Month/Year	Q1 07/2011	Q1 08/2011	Q1 09/2011	Q2 10/2011	Q2 11/2011	Q2 12/2011	Q3 01/2012	Q3 02/2012	Q3 03/2012	Q4 04/2012	Q4 05/2012	Q4 06/2012
	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 [ ] 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

Current Month SUVA	Month/Year	Q1 07/2011	Q1 08/2011	Q1 09/2011	Q2 10/2011	Q2 11/2011	Q2 12/2011	Q3 01/2012	Q3 02/2012	Q3 03/2012	Q4 04/2012	Q4 05/2012	Q4 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	Month/Year	Q1 07/2011	Q1 08/2011	Q1 09/2011	Q2 10/2011	Q2 11/2011	Q2 12/2011	Q3 01/2012	Q3 02/2012	Q3 03/2012	Q4 04/2012	Q4 05/2012	Q4 06/2012
	Monthly TreatedAlkalinity												
	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	Month/Year	Q1 07/2011	Q1 08/2011	Q1 09/2011	Q2 10/2011	Q2 11/2011	Q2 12/2011	Q3 01/2012	Q3 02/2012	Q3 03/2012	Q4 04/2012	Q4 05/2012	Q4 06/2012
Raw	Monthly Raw Mg Hardness												
	Monthly Treated Mg Hardness												
Treated	Monthly Mg Removal												
	Quarterly Average Removal												
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:** August 1, 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
PLANT NAME OR NUMBER: Navarro Mills
PWS ID No.: 1750002
DATE OF JAR TEST: August 10, 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)
Navarro Mills	Alum	120.00	n/a	0.00	n/a	0.00	Caustic	24.00

STEP 2 JAR TEST PARAMETERS

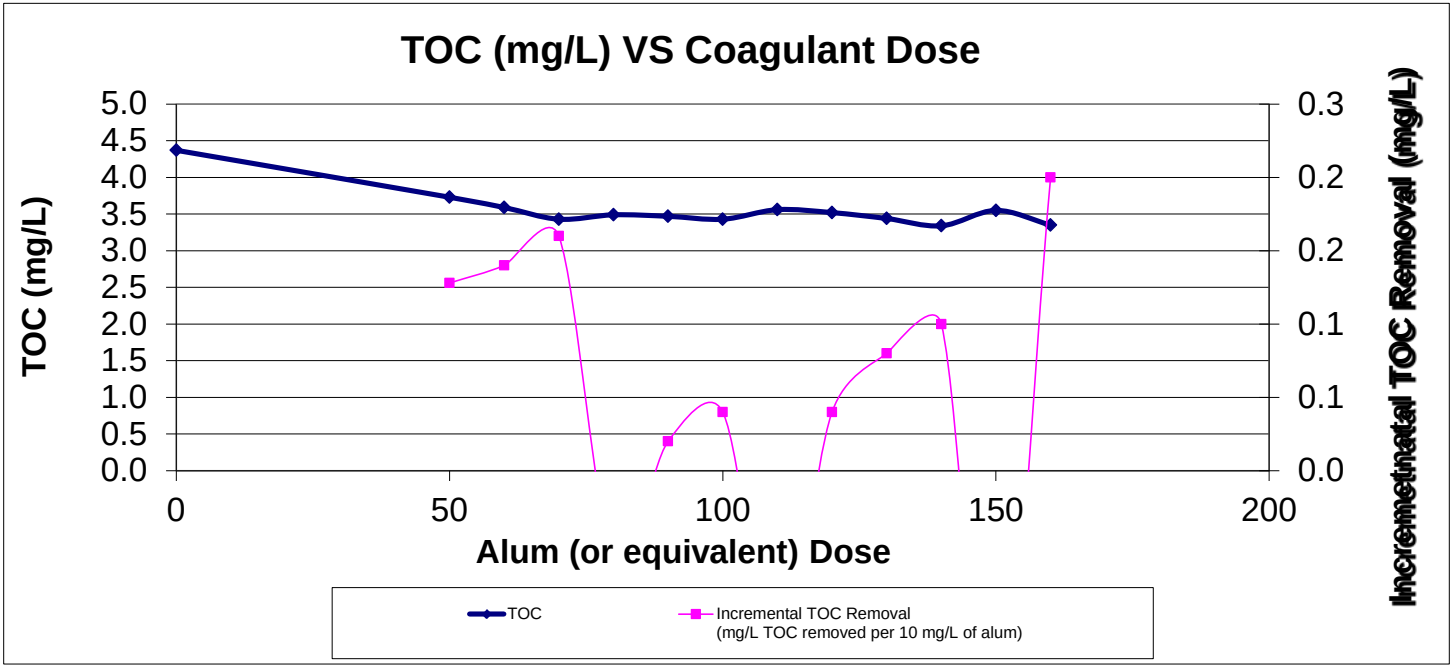
COAGULANT		BASE		JAR SIZE	JAR TEST CONDITIONS				
					Rapid Mix		Flocculation		Settling
Type	Stock Solution Concentration (g/L)	Type	Stock Solution Concentration (g/L)	Volume (liters)	Speed (rpm)	Duration (minutes)	Speed (rpm)	Duration (minutes)	Duration (minutes)
Alum	11	n/a	-	0.5	100.0	1.0	30.0	20.0	40.0

JAR TEST RESULTS

Jar No.	COAGULANT		BASE		Alkalinity (mg/L as $CaCO_3$)	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					109	7.7	4.4		
1	50	2.50	0.00			7.3	3.7	0.1	14.6
2	60	3.00	0.00			7.1	3.6	0.1	17.8
3	70	3.50	0.00			7.0	3.4	0.2	21.5
4	80	4.00	0.00		Target pH (based on raw water alkalinity)	6.9	3.5	-0.1	bad data point
5	90	4.50	0.00			6.7	3.5	0.0	20.6
6	100	5.00	0.00			6.7	3.4	0.0	21.5
7	110	5.50	0.00			6.7	3.6	-0.1	bad data point
8	120	6.00	0.00		6.3	6.6	3.5	0.0	19.5
9	130	6.50	0.00			6.5	3.4	0.1	21.3
10	140	7.00	0.00			6.4	3.3	0.1	23.6
11	150	7.50	0.00			6.4	3.6	-0.2	bad data point
12	160	8.00	0.00			6.2	3.4	0.2	23.3

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: **Not Amenable**



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