

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: <u>City of Corsicana</u>	PLANT NAME OR NUMBER: <u>Navarro Mills</u>
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.: <u>1750002</u> Report for the Month of: <u>December 2006</u>	Operator's Signature: _____ Certificate No. & Grade: <u>WO0004220 A</u> Date: <u>January 3, 2007</u>

TREATMENT PLANT PERFORMANCE			
Total number of turbidity readings:	163	Number of 4-hour periods when plant was off-line:	23
Number of readings above 0.10 NTU:	3	Number of 4-hour periods when plant was on-line but turbidity data was not collected:	0
Number of readings above 0.3 NTU:	0		
Number of readings above 0.5 NTU:	0		
Number of readings above 1.0 NTU:	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:	0.11 NTU	Average turbidity value:
	Minimum turbidity reading:	0.05 NTU	0.07 NTU
			Standard deviation:
			0.012 NTU
Additional report(s) for individual filter monitoring required:		<input 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 <input type="radio"/> Filter Assessment <input type="radio"/> CPE	
#NAME?		Number of days when plant was on-line but individual filter turbidity data was not collected:	
		0	
Number of days with a low CT for no more than 4.0 consecutive hours:	0	Average log inactivation for Giardia:	NA
Number of days with a low CT for more than 4.0 consecutive hours:	0 (4)	Average log inactivation for viruses:	NA
		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	<input type="radio"/> Free Chlorine <input checked="" type="radio"/> 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	<input type="radio"/> Free Chlorine <input checked="" type="radio"/> Total Chlorine	
Total number of readings this month:	56	Percentage of readings with a low residual this month:	0.0 % (6A)
Average disinfectant residual value:	2.30	Percentage of readings with a low residual last month:	0.0 % (6B)
Number of readings with a low residual:	0		
Number of readings with no detectable residual:	0		

PUBLIC NOTIFICATION			
TREATMENT TECHNIQUE VIOLATIONS	YES/NO	If YES, date when notice was given to:	
		COMMISSIONERS	CUSTOMERS*
Were more than 5.0% of the turbidity readings above the acceptable level? - see (1) above	No		
Were there any days with turbidity readings above 1.0 NTU? - see (2) above	No		
Were there any days with turbidity readings above 5.0 NTU? - see (3) above	No		
Were there any periods when the plant failed to meet the CT requirements for more than 4.0 consecutive hours? - see (4) above	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) above	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) above	No		

Due by the end of the next business day.
 * Copies of each Public Notice must accompany this report.

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

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: 8,734

Month: December Year: 2006

Population: 24,485

PERFORMANCE DATA																		
Date	Raw Water Pumpage (MGD)	Treated Water Pumpage (MGD)	RAW WATER ANALYSES		SETTLED WATER TURBIDITY (Optional Data)						FINISHED WATER QUALITY							
			NTU	Aik.	Basin No.						Turbidity						Lowest Residual	Time
					1	2	3	4	5	6	NTU1	NTU2	NTU3	NTU4	NTU5	NTU6		
1	4.340	3.041	58	108	0.8	0.9	1.2	0.8	1.0	0.8	0.07	0.07	0.06	0.07	0.07	0.08	3.1	
2	4.430	3.763	61	107	0.7	1.0	1.1	0.9	0.9	0.8	0.06	0.06	0.06	0.07	0.07	0.07	2.9	
3	7.720	5.341	66	110	0.9	1.0	1.2	1.1	1.1	1.0	0.07	0.08	0.07	0.07	0.10	0.09	2.9	
4	4.730	3.865	66	111	1.0	1.0	1.4	1.1	1.2	1.0	0.08	0.09	0.09	0.08	0.08	0.07	3.1	
5	4.410	3.427	64	112	0.8	1.1	1.1	0.9	1.0	1.0	0.07	0.07	0.07	0.07	0.07	0.06	3.0	
6	3.500	2.788	63	111	0.8	1.1	1.2	0.8	0.9	0.8	0.07	X	X	0.06	0.06	0.06	3.0	
7	4.020	3.127	60	108	1.1	1.2	1.2	1.0	1.2	1.0	0.06	0.06	0.07	0.06	0.07	0.07	3.0	
8	4.450	2.512	59	111	0.7	0.9	1.0	0.8	0.8	1.0	0.07	0.08	0.06	0.06	0.07	0.07	1.7	
9	3.360	3.698	57	108	0.7	0.8	1.0	0.8	0.8	0.7	0.08	X	0.07	0.06	0.07	0.07	1.6	
10	4.450	3.367	58	108	0.8	0.9	1.1	1.0	0.9	0.8	0.07	0.08	0.07	0.06	0.07	0.06	3.1	
11	4.440	2.302	55	110	0.8	0.8	1.1	0.9	0.8	0.8	0.06	0.06	0.06	0.06	0.07	0.07	3.0	
12	4.000	3.976	55	107	0.7	0.9	0.9	0.7	0.9	0.8	0.07	X	X	0.06	0.06	0.07	3.0	
13	4.880	3.491	56	109	0.8	0.9	1.1	0.8	1.0	0.9	0.07	0.06	0.07	0.07	0.07	0.07	3.1	
14	4.540	2.899	51	109	0.7	0.9	1.0	0.9	0.8	0.8	0.07	0.07	0.06	0.11	0.10	0.09	3.0	
15	2.850	3.002	48	109	0.8	0.9	0.9	0.9	0.7	0.8	0.10	X	X	0.07	0.06	0.06	3.0	
16	4.540	2.948	48	109	0.6	0.8	1.0	0.8	0.7	0.6	0.07	0.07	0.06	0.05	0.07	0.07	3.0	
17	4.510	3.027	47	111	0.6	0.7	0.8	0.7	0.7	0.6	0.07	0.07	0.07	0.07	0.08	0.07	3.0	
18	2.430	2.326	48	109	0.8	0.9	0.7	0.7	0.8	0.9	X	X	X	0.07	0.09	0.08	3.0	
19	4.350	2.919	53	111	0.9	1.0	1.2	0.8	1.0	0.9	0.07	0.07	0.07	0.08	0.07	0.08	3.0	
20	2.540	2.504	66	113	0.9	1.1	1.2	1.1	1.0	0.9	X	X	X	0.07	0.07	0.07	3.1	
21	4.380	3.173	57	111	0.9	1.0	1.1	0.9	0.9	0.9	0.09	0.08	0.08	0.08	0.07	0.08	3.1	
22	4.390	3.103	51	109	0.7	0.9	1.1	0.8	0.8	0.7	0.07	0.07	0.07	0.07	0.07	0.06	3.0	
23	4.390	2.868	48	110	0.7	0.8	1.0	0.8	0.8	0.7	0.07	0.06	0.08	0.08	0.07	0.07	3.0	
24	3.270	2.528	51	111	0.8	0.9	1.1	0.9	0.8	0.8	X	X	0.07	0.07	0.09	0.09	3.0	
25	3.370	2.581	62	111	0.8	0.8	1.1	0.9	0.8	0.8	X	X	0.08	0.08	0.08	0.08	3.0	
26	2.810	2.449	54	108	0.7	0.8	1.2	0.9	1.2	0.8	X	X	0.09	0.09	0.09	0.09	2.9	
27	4.420	3.111	57	111	0.9	1.0	1.3	1.0	1.1	0.9	0.09	0.08	0.08	0.08	0.08	0.08	3.1	
28	3.570	2.925	58	112	0.8	1.1	1.2	1.2	1.0	0.9	0.09	X	0.08	0.10	0.11	0.10	3.0	
29	3.140	2.658	69	111	0.8	1.0	1.1	1.0	0.9	0.8	0.10	0.09	X	X	0.08	0.08	2.9	
30	4.390	2.600	63	104	0.9	1.0	1.2	1.0	1.0	0.9	0.09	0.08	0.08	0.08	0.09	0.09	3.0	
31	3.320	3.222	57	112	0.8	1.0	1.2	1.0	0.9	0.9	0.10	X	0.08	0.10	0.11	0.10	2.9	
Total	125.940	95.541																
Avg	4.063	3.082																
Max	7.720	5.341																
Min	2.430	2.302																

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: January 3, 2007

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: December Year: 2006

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	0.08	X	0.09	X	0.08	X	0.11	X	0.11	0.10	0.08	X								
2	0.13	0.11	0.12	X	0.11	X	0.10	X	0.10	X	0.11	X								
3	0.26	X	0.18	0.11	0.60	X	0.47	X	0.11	X	0.17	0.09								
4	0.13	X	0.11	X	0.12	X	0.30	X	0.08	X	0.09	X								
5	0.12	X	0.10	X	0.12	0.09	0.07	X	0.07	X	0.07	X								
6	0.12	X	0.09	X	0.08	X	0.10	0.10	0.05	X	0.07	X								
7	0.06	X	0.11	X	0.08	X	0.10	X	0.08	0.08	0.08	X								
8	0.11	0.10	0.28	X	0.09	X	0.10	X	0.07	X	0.06	X								
9	0.09	X	0.09	X	0.07	X	0.08	X	0.07	X	0.14	0.09								
10	0.08	X	0.12	0.11	0.06	X	0.10	X	0.09	X	0.09	X								
11	0.08	X	0.11	X	0.09	0.08	0.08	X	0.06	X	0.07	X								
12	0.10	X	0.10	X	0.08	X	0.15	X	0.11	0.08	0.08	X								
13	0.09	X	0.10	X	0.08	X	0.09	X	0.07	X	0.08	X								
14	X	X	0.10	X	0.09	X	0.13	0.08	0.09	X	X	X								
15	X	X	0.10	X	0.06	X	0.09	X	0.07	X	X	X								
16	X	X	0.07	X	0.07	X	0.08	X	0.07	X	0.16	0.09								
17	0.10	0.10	X	X	0.06	X	0.09	X	0.07	X	0.09	X								
18	0.09	X	0.13	0.12	X	X	0.09	X	0.06	X	0.08	X								
19	0.09	X	0.12	X	0.11	0.11	X	X	X	X	0.08	X								
20	0.08	X	0.08	X	0.08	X	X	X	X	X	0.07	X								
21	0.08	X	0.09	X	0.08	X	X	X	X	X	0.07	X								
22	0.10	X	0.10	X	0.09	X	0.11	0.10	0.17	0.09	0.06	X								
23	X	X	0.09	X	0.09	X	0.11	X	0.08	X	0.12	0.12								
24	0.12	0.12	X	X	0.07	X	0.10	X	0.09	X	0.11	X								
25	0.11	X	X	X	X	X	0.10	X	0.08	X	0.10	X								
26	0.11	X	X	X	X	X	0.10	X	0.08	X	0.10	X								
27	0.11	X	0.14	0.14	X	X	0.10	X	0.07	X	0.10	X								
28	0.09	X	0.12	X	0.10	X	X	X	X	X	0.09	X								
29	0.11	X	0.10	X	0.08	X	0.15	0.11	X	X	0.12	X								
30	0.07	X	0.11	X	0.09	X	0.11	X	0.17	0.09	X	X								
31	X	X	0.12	X	0.07	X	0.09	X	0.08	X	X	X								

SUMMARY & COMPLIANCE ACTIONS	Criteria										Plant
	Filter No.										
	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										
	Number of days with event(s) above 1.0 NTU this month										
	Number of days with event(s) above 1.0 NTU last month										
	Number of days with event(s) above 1.0 NTU two months ago										
	Total number of days with event(s) above 1.0 NTU in three months										#####
	Number of days with event(s) above 2.0 NTU this month										0
	Number of days with event(s) above 2.0 NTU last month										0
Does the plant have an approved Corrective Action Plan?										N	
Is the plant required to submit a Filter Profile Report?										#####	
Is the plant required to submit a Filter Assessment Report?										#####	
Is the plant required to submit a Request for Compliance CPE?										N	

SUBMITTED BY: _____ Certificate No. and Grade: WO0004220 A Date: January 3, 2007

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: December Year: 2006

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 ₁₀ (minutes)	109.1	13.0	100.0				

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	2.5	4.300	16.0	7.6				
	CLA D3	3.4	4.300	16.0	7.7				
	D4								
	D5								
2	NA D1								
	FCL D2	2.5	4.400	15.0	7.6				
	CLA D3	3.3	4.400	15.0	7.8				
	D4								
	D5								
3	NA D1								
	FCL D2	2.6	10.100	12.0	7.6				
	CLA D3	3.3	10.100	13.0	7.8				
	D4								
	D5								
4	NA D1								
	FCL D2	2.6	4.300	11.0	7.5				
	CLA D3	3.2	4.300	12.0	7.6				
	D4								
	D5								
5	NA D1								
	FCL D2	2.5	4.400	12.0	7.6				
	CLA D3	3.2	4.400	12.0	7.6				
	D4								
	D5								
6	NA D1								
	FCL D2	2.7	4.500	12.0	7.5				
	CLA D3	3.2	4.500	11.0	7.7				
	D4								
	D5								
7	NA D1								
	FCL D2	2.6	4.600	13.0	7.5				
	CLA D3	3.1	4.600	13.0	7.7				
	D4								
	D5								
8	NA D1								
	FCL D2	2.6	4.600	12.0	7.5				
	CLA D3	2.0	4.600	12.0	7.6				
	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								
	FCL D2	2.9	4.400	11.0	7.5				
	CLA D3	3.2	4.400	11.0	7.6				
	D4								
	D5								
10	NA D1								
	FCL D2	2.6	4.400	9.0	7.5				
	CLA D3	3.2	4.400	10.0	7.6				
	D4								
	D5								
11	NA D1								
	FCL D2	2.3	4.400	10.0	7.6				
	CLA D3	3.0	4.400	10.0	7.7				
	D4								
	D5								
12	NA D1								
	FCL D2	2.6	7.000	11.0	7.6				
	CLA D3	3.2	7.000	11.0	7.7				
	D4								
	D5								
13	NA D1								
	FCL D2	2.6	6.900	11.0	7.6				
	CLA D3	3.2	6.900	11.0	7.7				
	D4								
	D5								
14	NA D1								
	FCL D2	2.5	4.400	12.0	7.6				
	CLA D3	3.1	4.400	12.0	7.6				
	D4								
	D5								
15	NA D1								
	FCL D2	2.8	4.600	13.0	7.5				
	CLA D3	3.1	4.600	12.0	7.7				
	D4								
	D5								
16	NA D1								
	FCL D2	2.5	4.500	13.0	7.6				
	CLA D3	3.2	4.500	13.0	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: W00004220 A Date: January 3, 2007

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: December Year: 2006

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 ₁₀ (minutes)	109.1	13.0	100.0				

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	2.5	4.500	14.0	7.6				
	CLA D3	3.2	4.500	13.0	7.7				
	D4								
	D5								
18	NA D1								
	FCL D2	2.6	4.500	14.0	7.6				
	CLA D3	3.0	4.500	14.0	7.7				
	D4								
	D5								
19	NA D1								
	FCL D2	2.8	4.300	14.0	7.6				
	CLA D3	3.2	4.300	15.0	7.7				
	D4								
	D5								
20	NA D1								
	FCL D2	3.0	4.400	14.0	7.5				
	CLA D3	3.2	4.400	15.0	7.7				
	D4								
	D5								
21	NA D1								
	FCL D2	2.5	4.200	15.0	7.5				
	CLA D3	3.2	4.200	15.0	7.6				
	D4								
	D5								
22	NA D1								
	FCL D2	2.6	4.400	15.0	7.6				
	CLA D3	3.2	4.400	15.0	7.7				
	D4								
	D5								
23	NA D1								
	FCL D2	2.5	4.400	15.0	7.5				
	CLA D3	3.2	4.400	15.0	7.7				
	D4								
	D5								
24	NA D1								
	FCL D2	2.7	4.300	13.0	7.6				
	CLA D3	3.0	4.300	14.0	7.7				
	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	2.5	4.600	13.0	7.6				
	CLA D3	3.0	4.600	14.0	7.7				
	D4								
	D5								
26	NA D1								
	FCL D2	2.5	4.500	12.0	7.6				
	CLA D3	3.0	4.500	13.0	7.7				
	D4								
	D5								
27	NA D1								
	FCL D2	2.8	4.500	12.0	7.6				
	CLA D3	3.3	4.500	13.0	7.7				
	D4								
	D5								
28	NA D1								
	FCL D2	2.5	4.600	13.0	7.6				
	CLA D3	3.1	4.600	13.0	7.7				
	D4								
	D5								
29	NA D1								
	FCL D2	2.6	4.400	14.0	7.6				
	CLA D3	3.2	4.400	14.0	7.7				
	D4								
	D5								
30	NA D1								
	FCL D2	2.5	4.300	14.0	7.7				
	CLA D3	3.0	4.300	13.0	7.8				
	D4								
	D5								
31	NA D1								
	FCL D2	2.4	4.400	12.0	7.7				
	CLA D3	3.1	4.400	13.0	7.9				
	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: January 3, 2007