

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>November 2008</u>	Operator's Signature: _____ Certificate No. & Grade: <u>WO0004220 A</u> Date: <u>December 2, 2008</u>

TREATMENT PLANT PERFORMANCE			
Total number of turbidity readings:	172	Number of 4-hour periods when plant was off-line:	8
Number of readings above 0.10 NTU:	32	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:	0.21 NTU	Average turbidity value:
	Minimum turbidity reading:	0.04 NTU	0.08 NTU
			Standard deviation:
			0.036 NTU
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 <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:	30
		Number of days when CT data was not collected:	30
Minimum disinfectant residual required leaving the plant:	0.5 mg/L	<input checked="" type="radio"/> Free Chlorine <input 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 checked="" type="radio"/> Free Chlorine <input type="radio"/> Total Chlorine	
Total number of readings this month:	60	Percentage of readings with a low residual this month:	0.0 % (6A)
Average disinfectant residual value:	2.20	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: 11,050

Month: November Year: 2008

Population: 28,500

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	6.610	5.665	34	104	0.5	0.5	0.6	0.6	0.5	0.5	0.07	0.06	0.06	0.07	0.08	0.07	3.1	
2	8.160	6.868	39	106	0.5	0.6	0.6	0.5	0.5	0.5	0.08	0.07	0.07	0.07	0.08	0.12	3.3	
3	8.030	6.254	42	108	1.2	0.9	1.4	0.9	1.2	0.9	0.14	0.16	0.18	0.19	0.21	0.19	2.4	
4	4.660	4.698	40	106	0.9	0.9	0.9	1.0	0.9	1.0	0.19	0.19	0.16	0.15	0.15	0.14	3.1	
5	4.540	4.440	42	105	0.9	0.7	0.9	0.8	0.6	0.8	0.15	0.14	0.14	0.13	0.13	0.13	3.0	
6	5.590	4.512	38	103	1.0	0.7	0.8	0.8	0.6	0.9	0.13	0.14	0.12	0.12	0.12	0.12	3.0	
7	7.870	6.187	42	103	0.9	0.6	0.7	0.7	0.5	0.6	0.13	0.17	0.13	0.12	0.11	0.11	2.7	
8	6.770	5.928	35	106	0.4	0.5	0.4	0.4	0.4	0.4	0.11	0.08	0.08	0.07	0.08	0.07	3.3	
9	6.740	5.960	41	108	0.4	0.4	0.4	0.4	0.4	0.4	0.07	0.07	0.05	0.06	0.06	0.06	3.2	
10	6.880	5.471	48	108	0.6	0.5	0.5	0.5	0.5	0.4	0.07	0.06	0.05	0.05	0.07	0.07	3.2	
11	6.900	5.403	49	105	0.5	0.5	0.5	0.4	0.4	0.5	0.05	0.05	0.06	0.05	0.05	0.06	2.6	
12	6.910	5.556	54	105	0.4	0.5	0.4	0.5	0.4	0.4	0.09	0.10	0.05	0.06	0.05	0.05	2.6	
13	4.760	4.819	53	108	0.5	0.5	0.5	0.5	0.5	0.4	X	X	0.06	0.06	0.06	0.06	3.3	
14	6.270	5.044	51	105	0.4	0.4	0.4	0.3	0.3	0.4	0.07	0.07	0.05	0.05	0.05	0.05	3.2	
15	6.210	5.301	41	109	0.3	0.4	0.4	0.3	0.3	0.4	0.05	0.07	0.05	0.07	0.05	0.07	3.2	
16	6.420	4.897	42	110	0.3	0.5	0.3	0.4	0.5	0.5	0.06	0.06	0.06	0.05	0.07	0.08	3.0	
17	6.310	4.444	43	109	0.3	0.3	0.4	0.5	0.4	0.3	0.09	0.06	0.06	0.06	0.07	0.07	3.0	
18	7.360	4.604	44	107	X	X	X	1.8	1.1	0.8	X	X	0.06	0.06	0.06	0.06	3.3	
19	8.530	4.775	44	109	0.6	0.7	0.5	X	1.4	1.3	0.08	0.07	0.05	0.05	0.06	0.06	3.5	
20	10.640	6.605	38	109	0.4	0.5	0.5	0.5	0.4	X	0.06	0.06	0.06	0.05	0.05	0.05	3.5	
21	4.610	4.449	37	104	0.4	0.4	0.5	0.4	0.4	0.6	X	X	0.05	0.06	0.05	0.05	3.6	
22	6.940	5.536	43	108	0.3	0.4	0.5	0.3	0.4	0.4	0.06	0.06	0.05	0.04	0.05	0.05	3.6	
23	6.690	5.380	41	109	0.4	0.3	0.4	0.3	0.3	0.3	0.06	0.06	0.04	0.04	0.05	0.05	3.1	
24	6.460	4.421	42	110	0.3	0.3	0.4	0.3	0.3	0.3	0.05	0.06	0.05	0.04	0.06	0.06	2.8	
25	6.500	5.728	40	109	0.5	0.4	0.4	0.4	0.4	0.4	0.07	0.06	0.06	0.06	0.06	0.05	2.9	
26	6.640	5.364	39	107	0.4	0.4	0.4	0.3	0.3	0.3	0.06	0.07	0.05	0.05	0.05	0.06	3.1	
27	6.520	4.751	39	107	0.3	0.3	0.3	0.4	0.3	0.3	0.07	0.07	0.05	0.06	0.05	0.05	3.2	
28	3.880	3.886	41	105	0.3	0.4	0.4	0.4	0.4	0.4	0.06	X	X	0.07	0.05	0.05	3.3	
29	6.540	4.786	44	111	0.3	0.3	0.4	0.4	0.4	0.3	0.06	0.07	0.06	0.05	0.06	0.07	3.0	
30	6.650	4.379	43	112	0.3	0.3	0.3	0.3	0.3	0.4	0.06	0.06	0.06	0.06	0.07	0.06	3.1	
31																		
Total	197.590	156.111																
Avg	6.586	5.204																
Max	10.640	6.868																
Min	3.880	3.886																

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 2, 2008

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: 2008

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	0.07	X	0.09	X	0.09	X	0.09	X	0.09	X	0.19	0.15								
2	0.16	X	0.22	0.15	0.10	X	0.22	0.18	0.20	0.13	0.32	0.21								
3	0.18	X	0.31	X	0.53	0.32	0.22	X	0.17	X	0.23	X								
4	X	X	0.19	X	X	X	0.16	X	0.18	X	0.18	X								
5	X	X	0.17	X	0.54	X	0.15	X	0.17	X	0.17	X								
6	0.29	0.17	0.17	X	0.17	X	0.26	0.17	0.78	X	0.30	X								
7	0.21	X	0.28	0.14	0.21	0.12	0.18	X	0.21	X	0.15	0.12								
8	0.07	X	0.07	X	0.08	X	0.07	X	X	X	0.09	X								
9	0.07	X	0.06	X	0.06	X	0.06	X	X	X	0.08	X								
10	0.07	X	0.06	X	0.07	X	0.06	X	0.21	0.08	0.07	X								
11	0.14	0.07	0.10	0.08	0.07	X	0.12	0.08	0.11	X	0.17	0.08								
12	0.06	X	0.06	X	X	X	0.06	X	0.06	X	0.06	X								
13	0.06	X	0.06	X	X	X	0.06	X	0.07	X	0.08	X								
14	0.05	X	0.05	X	X	X	0.05	X	0.06	X	0.07	X								
15	0.12	0.07	0.06	X	0.09	0.08	0.05	X	0.16	0.09	0.07	X								
16	0.07	X	0.15	0.08	0.07	X	0.14	0.09	0.16	X	0.07	X								
17	0.06	X	0.07	X	0.06	X	0.07	X	0.07	X	X	X								
18	0.08	X	0.09	X	0.08	X	0.09	X	0.08	X	X	X								
19	0.14	0.05	0.06	X	0.06	X	0.05	X	0.06	X	0.15	0.08								
20	0.06	X	0.15	0.06	0.14	0.06	0.05	X	0.16	0.06	0.07	X								
21	0.05	X	0.07	X	0.06	X	X	X	0.08	X	0.08	X								
22	0.05	X	0.06	X	0.05	X	X	X	0.06	X	0.07	X								
23	0.05	X	0.05	X	0.05	X	X	X	0.06	X	0.06	X								
24	0.14	0.06	0.06	X	0.05	X	0.07	0.06	0.06	X	0.24	0.10								
25	0.06	X	0.05	X	0.17	0.07	0.06	X	0.20	0.07	0.07	X								
26	0.07	X	X	X	0.08	X	0.05	X	0.07	X	0.10	X								
27	0.06	X	X	X	0.06	X	0.06	X	0.07	X	0.07	X								
28	0.06	X	0.11	0.09	0.06	X	0.06	X	0.07	X	0.08	X								
29	0.13	0.07	0.08	X	0.06	X	0.17	0.08	0.06	X	0.30	0.10								
30	0.07	X	0.06	X	0.05	X	0.06	X	0.24	0.09	0.08	X								
31																				

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										0
	Number of days with event(s) above 1.0 NTU this month										0
	Number of days with event(s) above 1.0 NTU last month										0
	Number of days with event(s) above 1.0 NTU two months ago										0
	Total number of days with event(s) above 1.0 NTU in three months										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 plant have an approved Corrective Action Plan?										N	
Is the plant required to submit a Filter Profile Report?										N	
Is the plant required to submit a Filter Assessment Report?										N	
Is the plant required to submit a Request for Compliance CPE?										N	

SUBMITTED BY: _____ Certificate No. WO0004220 A and Grade: _____ Date: December 2, 2008

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: 2008

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									
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	3.9	10.000	19.0	7.7				
	CLA D3	3.4	10.000	20.0	7.8				
	D4								
	D5								
2	NA D1								
	FCL D2	3.3	10.100	20.0	7.7				
	CLA D3	3.3	10.100	20.0	7.7				
	D4								
	D5								
3	NA D1								
	FCL D2	3.2	9.800	19.0	7.7				
	CLA D3	2.6	9.800	20.0	7.8				
	D4								
	D5								
4	NA D1								
	FCL D2	3.7	5.100	19.0	7.4				
	CLA D3	3.1	5.100	20.0	7.4				
	D4								
	D5								
5	NA D1								
	FCL D2	3.8	5.200	19.0	7.3				
	CLA D3	3.0	5.200	20.0	7.3				
	D4								
	D5								
6	NA D1								
	FCL D2	3.0	9.800	20.0	7.4				
	CLA D3	3.0	9.800	20.0	7.3				
	D4								
	D5								
7	NA D1								
	FCL D2	3.0	10.000	20.0	7.4				
	CLA D3	3.0	10.000	20.0	7.3				
	D4								
	D5								
8	NA D1								
	FCL D2	3.4	6.900	19.0	7.4				
	CLA D3	3.5	6.900	19.0	7.4				
	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	3.3	6.800	18.0	7.4				
	CLA D3	3.3	6.800	19.0	7.4				
	D4								
	D5								
10	NA D1								
	FCL D2	3.3	6.900	19.0	7.4				
	CLA D3	3.3	6.900	19.0	7.4				
	D4								
	D5								
11	NA D1								
	FCL D2	2.3	6.900	18.0	7.4				
	CLA D3	3.1	6.900	19.0	7.4				
	D4								
	D5								
12	NA D1								
	FCL D2	3.4	7.000	19.0	7.4				
	CLA D3	2.6	7.000	19.0	7.5				
	D4								
	D5								
13	NA D1								
	FCL D2	3.2	7.100	20.0	7.5				
	CLA D3	3.7	7.100	19.0	7.4				
	D4								
	D5								
14	NA D1								
	FCL D2	3.5	6.700	19.0	7.4				
	CLA D3	3.3	6.700	20.0	7.4				
	D4								
	D5								
15	NA D1								
	FCL D2	3.7	6.400	18.0	7.5				
	CLA D3	3.3	6.400	18.0	7.5				
	D4								
	D5								
16	NA D1								
	FCL D2	3.4	6.500	17.0	7.5				
	CLA D3	3.5	6.500	17.0	7.5				
	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: December 2, 2008

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: 2008

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	3.7	6.500	17.0	7.5				
	CLA D3	3.0	6.500	17.0	7.5				
	D4								
	D5								
18	NA D1								
	FCL D2	2.6	13.700	17.0	7.5				
	CLA D3	3.5	13.700	17.0	7.6				
	D4								
	D5								
19	NA D1								
	FCL D2	3.0	11.100	16.0	7.5				
	CLA D3	3.8	11.100	17.0	7.8				
	D4								
	D5								
20	NA D1								
	FCL D2	3.4	11.500	16.0	7.4				
	CLA D3	4.0	11.500	17.0	7.5				
	D4								
	D5								
21	NA D1								
	FCL D2	3.5	7.100	15.0	7.5				
	CLA D3	3.6	7.100	16.0	7.5				
	D4								
	D5								
22	NA D1								
	FCL D2	3.3	7.200	14.0	7.6				
	CLA D3	3.7	7.200	16.0	7.6				
	D4								
	D5								
23	NA D1								
	FCL D2	2.9	7.200	15.0	7.5				
	CLA D3	3.3	7.200	15.0	7.6				
	D4								
	D5								
24	NA D1								
	FCL D2	2.9	6.400	14.0	7.4				
	CLA D3	2.9	6.400	15.0	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	3.4	6.800	14.0	7.4				
	CLA D3	2.9	6.800	15.0	7.4				
	D4								
	D5								
26	NA D1								
	FCL D2	3.3	6.800	15.0	7.5				
	CLA D3	3.3	6.800	15.0	7.5				
	D4								
	D5								
27	NA D1								
	FCL D2	3.2	6.700	15.0	7.5				
	CLA D3	3.3	6.700	15.0	7.5				
	D4								
	D5								
28	NA D1								
	FCL D2	3.0	6.500	15.0	7.5				
	CLA D3	3.4	6.500	15.0	7.6				
	D4								
	D5								
29	NA D1								
	FCL D2	2.8	6.700	15.0	7.5				
	CLA D3	3.2	6.700	15.0	7.6				
	D4								
	D5								
30	NA D1								
	FCL D2	2.8	6.900	15.0	7.5				
	CLA D3	3.1	6.900	14.0	7.6				
	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 2, 2008