

# 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

<b>PUBLIC WATER SYSTEM NAME:</b> <u>City of Corsicana</u>	<b>PLANT NAME OR NUMBER:</b> <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.	
<b>PWS ID No.:</b> <u>1750002</u> <b>Report for the Month of:</b> <u>March 2008</u>	<b>Operator's Signature:</b> _____ <b>Certificate No. &amp; Grade:</b> <u>WO0004220 A</u> <b>Date:</b> <u>April 1, 2008</u>

TREATMENT PLANT PERFORMANCE			
Total number of turbidity readings:	176	Number of 4-hour periods when plant was off-line:	10
Number of readings above 0.10 NTU:	30	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:	0.24 NTU	Average turbidity value:
	Minimum turbidity reading:	0.05 NTU	0.08 NTU
		Average turbidity value:	0.027 NTU
		Standard deviation:	
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: <u>0</u>		
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:	61	Percentage of readings with a low residual this month:	0.0 % (6A)
Average disinfectant residual value:	2.28	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: March 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	5.960	4.206	23	130	0.3	0.5	0.4	0.4	0.3	0.3	0.06	0.06	0.09	0.09	0.06	0.06	3.1	
2	5.930	4.544	23	130	0.3	0.4	0.4	0.4	0.4	0.3	0.07	0.06	0.05	0.05	0.06	0.06	2.9	
3	5.930	4.141	27	130	0.5	0.5	0.4	0.4	0.5	0.4	0.06	0.05	0.05	0.06	0.08	0.06	2.9	
4	5.930	3.813	27	128	0.4	0.5	0.5	0.5	0.5	0.5	0.07	0.06	0.06	0.06	0.10	0.08	2.9	
5	4.680	3.902	27	128	0.4	0.5	0.4	0.4	0.3	0.4	0.07	X	0.06	0.05	0.06	0.06	2.9	
6	5.850	3.975	30	129	0.5	0.4	0.4	0.4	0.6	0.5	0.06	0.09	0.09	0.08	0.08	0.14	2.9	
7	5.910	3.502	30	127	0.4	0.5	0.5	0.5	0.5	0.5	0.12	0.11	0.07	0.07	0.09	0.09	3.0	
8	5.920	4.771	28	128	0.3	0.4	0.4	0.4	0.4	0.4	0.10	0.10	0.09	0.09	0.08	0.10	3.0	
9	5.930	4.109	30	130	0.3	0.4	0.5	0.4	0.4	0.5	0.09	0.09	0.06	0.05	0.09	0.10	3.0	
10	5.940	3.845	29	130	0.3	0.4	0.5	0.5	0.5	0.4	0.06	0.05	0.06	0.05	0.07	0.06	2.9	
11	5.920	3.719	23	130	0.4	0.4	0.4	0.4	0.5	0.4	0.09	0.08	0.07	0.06	0.10	0.10	3.0	
12	5.320	4.482	17	130	0.4	0.4	0.5	0.4	0.5	0.4	0.11	0.10	0.06	0.06	0.05	0.06	3.0	
13	5.420	3.866	18	129	0.5	0.5	0.6	0.5	0.6	0.4	0.09	0.09	0.12	0.08	0.08	0.09	3.0	
14	5.370	4.667	19	130	0.6	0.6	0.6	0.6	0.6	0.6	0.05	0.07	0.06	0.05	0.09	0.08	2.9	
15	5.260	4.407	17	132	0.4	0.6	0.5	0.5	0.5	0.5	0.07	0.06	0.09	0.07	0.07	0.09	2.9	
16	5.270	4.198	28	133	0.7	0.9	1.0	0.7	0.7	0.7	0.07	0.06	0.06	0.06	0.08	0.08	2.9	
17	5.280	3.847	34	132	1.2	0.8	1.0	0.7	1.4	0.6	0.08	0.06	0.06	0.06	0.07	0.07	2.7	
18	5.300	4.365	31	130	1.1	1.0	1.1	0.8	1.4	0.9	0.07	0.06	0.07	0.07	0.10	0.08	2.8	
19	5.540	3.895	30	128	1.1	0.8	1.7	0.8	0.9	0.8	0.09	0.08	0.10	0.11	0.11	0.11	2.6	
20	5.830	4.483	27	130	0.9	0.8	1.1	0.8	0.8	0.7	0.11	0.11	0.12	0.12	0.12	0.12	2.7	
21	4.180	3.390	26	130	0.7	0.8	0.9	0.8	1.0	0.8	X	X	0.09	0.08	0.10	0.11	2.7	
22	4.830	4.504	32	131	0.5	0.7	0.7	0.6	0.6	0.5	0.11	0.08	0.10	X	0.11	0.11	2.6	
23	5.520	4.604	32	131	0.6	0.6	0.8	0.6	0.7	0.6	0.10	0.09	0.09	0.08	0.08	0.08	2.8	
24	5.510	4.097	33	131	0.7	0.6	0.9	0.7	0.8	0.6	0.08	0.09	0.07	0.07	0.08	0.08	2.9	
25	4.070	3.760	31	129	0.7	0.8	0.8	0.6	0.6	0.6	X	X	0.08	0.08	0.09	0.08	2.7	
26	6.210	4.407	31	128	0.6	0.7	0.9	0.7	0.7	0.6	0.09	0.08	0.09	0.07	0.07	0.07	2.5	
27	3.760	3.673	32	128	0.7	0.7	0.9	0.8	0.8	0.8	X	X	X	0.09	0.08	0.10	2.7	
28	5.790	4.644	31	126	0.7	0.9	1.0	0.8	0.9	0.8	0.07	0.06	0.07	0.07	0.08	0.08	2.7	
29	4.420	3.963	26	127	0.6	0.7	0.7	0.6	0.6	0.6	0.10	X	0.08	0.08	0.11	0.11	2.4	
30	6.020	4.613	22	126	0.5	0.6	0.7	0.6	0.6	0.5	0.12	0.13	0.10	0.10	0.13	0.18	2.2	
31	6.100	4.388	26	128	0.7	0.7	0.8	0.7	1.0	0.7	0.24	0.19	0.14	0.14	0.17	0.12	2.4	
<b>Total</b>	168.900	128.780																
<b>Avg</b>	5.448	4.154																
<b>Max</b>	6.210	4.771																
<b>Min</b>	3.760	3.390																

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: April 1, 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: March 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	X	X	X	X	0.07	X	0.05	X	X	X	0.07	X								
2	X	X	X	X	0.06	X	0.05	X	X	X	0.07	X								
3	0.08	0.07	0.09	0.09	0.06	X	0.05	X	0.11	0.08	0.06	X								
4	0.08	X	0.08	X	X	X	X	X	0.07	X	X	X								
5	0.07	X	0.08	X	X	X	X	X	0.07	X	X	X								
6	0.06	X	0.06	X	X	X	X	X	0.06	X	0.08	0.08								
7	0.06	X	X	X	0.11	0.08	0.07	0.06	X	X	0.08	X								
8	X	X	X	X	0.08	X	0.06	X	X	X	0.07	X								
9	X	X	X	X	0.06	X	0.05	X	X	X	0.06	X								
10	X	X	0.08	0.07	0.06	X	0.04	X	0.08	0.08	0.06	X								
11	0.08	0.07	0.08	X	0.06	X	X	X	0.07	X	X	X								
12	0.07	X	0.07	X	X	X	X	X	0.06	X	X	X								
13	0.06	X	0.07	X	X	X	X	X	0.07	X	X	X								
14	0.07	X	0.07	X	X	X	0.08	0.07	0.07	X	0.09	0.08								
15	0.17	X	X	X	0.12	0.09	0.07	X	X	X	0.08	X								
16	X	X	X	X	0.09	X	0.07	X	X	X	0.11	X								
17	X	X	X	X	0.17	X	0.24	X	0.11	0.11	0.18	X								
18	X	X	0.13	0.12	0.16	X	0.17	X	0.11	X	X	X								
19	0.14	0.11	0.11	X	0.09	X	X	X	0.10	X	X	X								
20	0.10	X	0.11	X	X	X	X	X	0.10	X	X	X								
21	0.12	X	0.27	X	X	X	X	X	0.09	X	0.13	0.11								
22	0.22	X	0.37	X	X	X	0.10	0.10	X	X	0.11	X								
23	0.24	X	X	X	0.11	0.11	0.10	X	X	X	0.10	X								
24	X	X	X	X	0.10	X	0.08	X	X	X	0.08	X								
25	X	X	X	X	0.09	X	0.08	X	X	X	0.09	X								
26	0.10	0.10	X	X	0.11	X	0.22	X	0.15	0.11	0.08	X								
27	0.08	X	X	X	0.11	X	X	X	0.09	X	X	X								
28	0.19	X	0.14	0.11	0.08	X	X	X	0.09	X	X	X								
29	0.78	X	0.51	X	X	X	X	X	0.11	X	X	X								
30	0.46	X	0.71	X	X	X	X	X	0.11	X	0.17	0.11								
31	0.16	X	0.58	X	0.15	0.11	0.11	0.10	X	X	0.12	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	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	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	
	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	N	N	N	N	N					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: April 1, 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: March 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 <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	2.9	6.100	14.0	7.5				
	CLA D3	3.1	6.100	14.0	7.6				
	D4								
	D5								
2	NA D1								
	FCL D2	2.7	6.000	15.0	7.5				
	CLA D3	3.0	6.000	15.0	7.6				
	D4								
	D5								
3	NA D1								
	FCL D2	2.6	6.000	15.0	7.6				
	CLA D3	2.9	6.000	15.0	7.6				
	D4								
	D5								
4	NA D1								
	FCL D2	2.8	6.000	13.0	7.5				
	CLA D3	3.0	6.000	14.0	7.6				
	D4								
	D5								
5	NA D1								
	FCL D2	2.4	5.900	13.0	7.5				
	CLA D3	3.1	5.900	14.0	7.6				
	D4								
	D5								
6	NA D1								
	FCL D2	2.7	5.900	13.0	7.5				
	CLA D3	2.9	5.900	14.0	7.6				
	D4								
	D5								
7	NA D1								
	FCL D2	2.8	6.100	13.0	7.4				
	CLA D3	3.2	6.100	13.0	7.7				
	D4								
	D5								
8	NA D1								
	FCL D2	3.1	6.100	13.0	7.6				
	CLA D3	3.0	6.100	13.0	7.7				
	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	2.9	6.000	12.0	7.5				
	CLA D3	3.2	6.000	13.0	7.7				
	D4								
	D5								
10	NA D1								
	FCL D2	2.3	6.000	12.0	7.5				
	CLA D3	2.9	6.000	13.0	7.5				
	D4								
	D5								
11	NA D1								
	FCL D2	2.9	6.100	12.0	7.5				
	CLA D3	3.0	6.100	13.0	7.5				
	D4								
	D5								
12	NA D1								
	FCL D2	2.7	5.800	13.0	7.4				
	CLA D3	3.2	5.800	13.0	7.4				
	D4								
	D5								
13	NA D1								
	FCL D2	2.9	5.700	14.0	7.5				
	CLA D3	3.2	5.700	14.0	7.6				
	D4								
	D5								
14	NA D1								
	FCL D2	3.0	6.400	16.0	7.5				
	CLA D3	3.0	6.400	15.0	7.7				
	D4								
	D5								
15	NA D1								
	FCL D2	3.2	5.900	16.0	7.7				
	CLA D3	3.0	5.900	15.0	7.9				
	D4								
	D5								
16	NA D1								
	FCL D2	2.8	5.800	16.0	7.6				
	CLA D3	3.1	5.800	16.0	7.7				
	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: April 1, 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: March 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 <sub>10</sub> (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	2.9	5.600	15.0	7.5				
	CLA D3	2.8	5.600	16.0	7.6				
	D4								
	D5								
18	NA D1								
	FCL D2	2.8	5.600	16.0	7.5				
	CLA D3	2.8	5.600	17.0	7.5				
	D4								
	D5								
19	NA D1								
	FCL D2	2.7	6.000	15.0	7.5				
	CLA D3	2.6	6.000	16.0	7.6				
	D4								
	D5								
20	NA D1								
	FCL D2	2.6	6.100	16.0	7.5				
	CLA D3	3.0	6.100	16.0	7.5				
	D4								
	D5								
21	NA D1								
	FCL D2	2.5	6.300	15.0	7.5				
	CLA D3	2.7	6.300	15.0	7.5				
	D4								
	D5								
22	NA D1								
	FCL D2	2.9	6.300	16.0	7.5				
	CLA D3	2.6	6.300	16.0	7.5				
	D4								
	D5								
23	NA D1								
	FCL D2	2.8	5.600	16.0	7.6				
	CLA D3	3.0	5.600	17.0	7.6				
	D4								
	D5								
24	NA D1								
	FCL D2	2.4	6.300	15.0	7.4				
	CLA D3	3.2	6.300	16.0	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	2.5	6.200	15.0	7.4				
	CLA D3	2.9	6.200	16.0	7.4				
	D4								
	D5								
26	NA D1								
	FCL D2	2.8	6.300	16.0	7.4				
	CLA D3	2.6	6.300	16.0	7.4				
	D4								
	D5								
27	NA D1								
	FCL D2	2.7	6.300	17.0	7.4				
	CLA D3	2.7	6.300	17.0	7.5				
	D4								
	D5								
28	NA D1								
	FCL D2	3.0	6.000	17.0	7.5				
	CLA D3	2.8	6.000	18.0	7.5				
	D4								
	D5								
29	NA D1								
	FCL D2	2.7	6.100	17.0	7.6				
	CLA D3	2.5	6.100	17.0	7.6				
	D4								
	D5								
30	NA D1								
	FCL D2	2.6	6.200	17.0	7.6				
	CLA D3	2.5	6.200	17.0	7.6				
	D4								
	D5								
31	NA D1								
	FCL D2	2.7	6.300	18.0	7.6				
	CLA D3	2.7	6.300	18.0	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: April 1, 2008