

Town of Fort Frances - Water Treatment Plant - Water Works # 220000978
Monitoring Record
February 2017

Operating Data		Units	MAC or Range	1	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	Total	Average
Flow rates	Raw Water	10 ³ M ³	17	5.55	5.30	5.49	5.60	5.42	5.22	5.42	5.45	5.35	5.28	5.39	5.50	5.37	5.33	5.32	5.38	4.30	5.50	5.23	5.26	5.64	5.38	5.34	5.55	5.47	5.16	5.39	150.01	5.36		
	Peak Instantaneous - Raw Water	L/s	n/a	43.35	63.21	63.26	63.21	63.19	63.07	63.16	63.06	63.05	63.10	62.99	62.96	62.95	62.80	63.10	63.13	62.88	63.01	62.90	62.97	62.93	62.85	62.92	62.82	62.79	62.75	62.77	1701.28	63.01		
	Treated Water	10 ³ M ³	17	3.55	3.49	3.70	3.51	3.68	3.50	3.61	3.72	3.70	3.38	3.59	3.96	3.72	3.66	3.77	3.68	3.55	3.72	3.54	3.35	3.90	3.69	3.58	3.88	4.30	4.03	4.13	103.68	3.70		
	Peak Instantaneous - Treated Water	L/s	n/a	80.95	82.81	81.58	80.70	80.85	79.28	80.98	81.08	80.07	80.44	78.77	79.83	81.37	82.67			81.69	87.91	81.87	79.52	79.96	94.39	80.65	81.22	81.94	82.95	82.74	83.83	2142.17	82.39	
	Backwash Water	10 ³ M ³	n/a		0.718	0.721	0.718				0.715	0.593	0.452	0.274	0.186		0.261	0.274	0.280	0.266	0.273					0.718						7.79	0.487	
Fluoride Information																																		
Fluoride Residual - Treated Water	mg/l	0.5 to 0.8	0.510	0.540	0.530	0.550	0.520	0.540	0.500	0.510	0.530	0.500	0.530	0.530	0.540	0.580	0.550	0.530	0.590	0.600	0.610	0.620	0.610	0.630	0.660	0.550	0.580	0.580	0.570	0.600	15.68	0.56		
Turbidity Information																																		
Raw Water	NTU	n/a	0.81	0.26	0.69	0.72	0.77	0.74	0.77	0.82	0.86	0.78	0.76	0.71	0.80	0.73	0.82	0.80	0.77	0.80	0.83	0.87	0.82	0.86	0.84	0.91	0.94	0.92	0.87	0.91	22.70	0.81		
Sealed Water	NTU	n/a	0.18	0.17	0.15	0.14	0.13	0.14	0.17	0.16	0.14	0.19	0.17	0.17	0.19	0.21	0.19	0.17	0.20	0.18	0.18	0.16	0.17	0.15	0.17	0.18	0.19	0.19	0.18	0.16	4.60	0.17		
Treated Water	NTU	1	0.09	-1	0.12	0.10	0.10	0.10	0.09	0.11	0.09	0.10	0.09	0.10	0.12	0.13	0.14	0.14	0.13	0.10	0.09	0.08	0.08	0.11	0.13	0.12	0.13	0.12	0.14	0.12	0.14	0.12	2.97	
Other Operating Parameters																																		
pH - Treated Water	no units	6.5 to 8.5	7.22	7.23	7.23	7.25	7.17	7.25	7.28	7.11	7.19	7.05	7.03	7.05	7.15	7.12	7.21	7.19	7.17	7.21	7.24	7.27	7.28	7.21	7.09	7.15	7.2	7.22	7.20	7.28	201.25	7.19		
pH - Sealed Water	no units	n/a	6.88	6.67	6.60	6.71	6.68	6.76	6.81	6.71	6.83	6.90	6.78	6.67	6.76	6.74	6.76	6.65	6.75	6.69	6.72	6.74	6.77	6.71	6.73	6.77	6.66	6.69	6.55	6.75	188.82	6.74		
pH - Raw Water	n/a	7.22	7.32	7.25	7.19	7.15	7.19	7.21	7.03	7.10	7.02	7.03	7.10	7.10	7.13	7.14	7.21	7.15	7.20	7.16	7.19	7.12	7.09	7.12	7.19	7.12	7.15	7.19	7.19	7.22	200.29	7.15		
FAIC - Treated Water	mg/l	0.2 to 4	2.20	2.26	2.11	2.03	2.03	2.38	2.14	2.10	2.15	2.14	2.09	2.05	2.08	2.18	2.15	2.24	2.18	2.16	2.68	2.07	2.04	2.10	2.18	2.12	2.08	2.01	2.00	2.26	60.23	2.15		
Total Chlorine Residual Treated	mg/l	0.3 to 7	2.32	2.40	2.28	2.20	2.21	2.36	2.42	2.40	2.44	2.50	2.38	2.32	2.40	2.44	2.36	2.42	2.38	2.38	2.36	2.28	2.18	2.20	2.50	2.48	2.38	2.20	2.26	2.56	65.97	2.36		
Temperature	C	15	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.0	3.0	2.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	75.0	2.86		
Fluoride used (Total Daily Consumption)	kg	n/a	17.0	16.0	17.0	17.0	17.0	16.0	10.0	10.0	11.0	12.0	12.0	13.0	12.0	12.0	13.0	14.0	18.0	22.0	22.0	21.0	21.0	21.0	21.0	21.0	21.0	20.0	19.0	20.0	467.0	16.88		
Chlorine used (Total Daily Consumption)	kg	n/a	21.0	21.0	20.0	20.0	20.0	20.0	21.0	20.0	20.0	21.0	19.0	20.0	21.0	20.0	20.0	23.0	21.0	19.0	21.0	21.0	21.0	21.0	20.0	21.0	21.0	20.0	19.0	22.0	571.0	20.39		
Soda ash (Total Daily Consumption)	kg	n/a	194.3	185.5	182.2	186.0	186.7	182.7	189.7	189.7	180.8	187.3	184.8	188.7	182.5	188.0	186.6	186.2	188.3	150.5	182.5	183.1	184.1	187.4	188.3	186.9	184.3	181.5	180.6	188.7	5250.4	187.51		
Soda ash - Dosage	mg/l	n/a	36.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	980.0	35.01		
Alum residual - (Total Daily Consumption)	kg	n/a	194.3	195.5	192.2	196.0	196.7	192.7	199.7	199.7	190.8	187.3	184.8	188.7	182.5	188.0	186.6	186.2	188.3	150.5	182.5	183.1	184.1	187.4	188.3	186.9	184.3	181.5	180.6	188.7	5250.4	187.51		
Alum residual - Dosage	mg/l	n/a	36.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	980.0	35.01		
Alum residual - Treated Water	mg/l	0.1	0.05	0.06	0.04	0.05	0.04	0.07	0.05	0.07	0.07	0.05	0.05	0.02	0.06	0.05	0.05	0.05	0.06	0.04	0.06	0.07	0.04	0.04	0.05	0.04	0.07	0.0	0.05	0.05	13.8	0.05		
Poly coag added (25 kg bags)	kg	0.5	0.05	0.06	0.04	0.05	0.07	0.05	0.07	0.07	0.07	0.05	0.05	0.05	0.02	0.06	0.05	0.05	0.06	0.04	0.06	0.07	0.04	0.04	0.05	0.04	0.07	0.0	0.05	0.05	13.8	0.05		