

Town of Fort Frances - Water treatment Plant - Water Works # 220000978
Monitoring Record
March 2017

Operating Data	Units	*MAC	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	30	31	Total	Average
		or Range																																	
Flow rates																																			
Raw Water	10^3 M^3	17	5.40	5.33	5.35	5.28	5.37	5.45	5.30	5.62	5.52	5.68	5.47	5.58	5.58	5.63	5.58	5.56	5.63	5.72	5.76	5.33	5.60	5.62	5.62	5.47	5.62	5.63	5.70	5.56	5.58	5.59	5.59	171.72	5.54
Peak Instantaneous - Raw Water	L/s	n/a	62.73	62.76	62.65	62.60	62.57	62.56	62.50	65.96	65.61	65.60	65.70	65.62	65.56	65.55	65.49	65.44	65.58	65.57	65.51	65.53	65.49	65.47	65.48	65.45	65.39	65.41	65.46	65.29	65.34	65.32	65.32	2010.51	64.86
Treated Water	10^3 M^3	17	3.78	3.62	3.66	3.57	3.78	3.87	3.46	3.56	3.48	3.74	3.52	3.86	3.65	3.51	3.35	3.55	3.52	3.29	3.55	3.63	3.58	3.63	2.95	4.21	3.56	3.65	3.87	3.64	3.70	4.22	4.60	113.56	3.663
Peak Instantaneous - Treated Water	L/s	n/a	82.38	80.88	80.94	80.70	82.17	80.22	81.22	82.48	81.40	81.34	80.94	81.27	79.26	79.32	79.58	78.99	79.01	77.49	78.62	79.65	83.70	80.73	81.58	81.75	81.53	82.18	80.90	81.87	81.95	89.95	87.02	2521.02	81.323
BackWash Water	10^3 M^3	n/a	0.234	0.324	0.183	0.261				0.270	0.195			0.527	0.203			0.261	0.209		0.470	0.273		0.205	0.260	0.271	0.207	0.261			0.271			4.885	0.271
Fluoride Information																																			
Fluoride Residual - Treated Water	mg/l	0.5 to 0.8	0.57	0.60	0.61	0.57	0.53	0.50	0.53	0.60	0.56	0.54	0.57	0.56	0.56	0.55	0.53	0.54	0.54	0.57	0.55	0.60	0.57	0.55	0.58	0.60	0.55	0.57	0.58	0.57	0.61	0.58	0.55	17.49	0.56
Turbidity Information																																			
Raw Water	NTU	n/a	0.93	0.89	0.95	0.92	0.99	0.87	0.99	0.92	0.98	0.90	0.92	0.91	0.92	0.93	0.97	0.93	0.99	0.95	0.91	1.01	0.97	0.93	0.91	0.98	1.07	1.01	0.94	1.09	1.11	0.88	1.01	29.68	0.96
Settled Water	NTU	n/a	0.23	0.19	0.19	0.17	0.21	0.18	0.19	0.16	0.19	0.17	0.16	0.18	0.14	0.17	0.16	0.19	0.17	0.18	0.15	0.17	0.19	0.16	0.17	0.19	0.17	0.20	0.16	0.18	0.20	0.19	0.17	5.53	0.18
Treated Water	NTU	1	0.11	0.11	0.10	0.11	0.10	0.11	0.14	0.11	0.13	0.14	0.14	0.14	0.11	0.11	0.12	0.11	0.09	0.11	0.09	0.12	0.12	0.09	0.09	0.11	0.10	0.09	0.10	0.10	0.10	0.14	0.12	3.46	0.11
Other Operating Parameters																																			
pH - Treated Water	no units	6.5 to 8.5	7.17	7.16	7.20	7.19	7.15	7.22	7.22	7.20	7.24	7.19	7.21	7.24	7.23	7.19	7.16	7.19	7.21	7.22	7.25	7.21	7.19	7.20	7.20	7.21	7.20	7.20	7.18	7.19	7.19	7.19	7.15	223.15	7.20
pH - Settled water	no units	n/a	6.60	6.71	6.55	6.69	6.64	6.66	6.65	6.75	6.51	6.57	6.67	6.65	6.59	6.69	6.73	6.67	6.66	6.69	6.61	6.67	6.79	6.79	6.72	6.77	6.70	6.68	6.68	6.71	6.72	6.70	6.77	206.99	6.68
pH - Raw Water	no units	n/a	7.20	7.20	7.15	7.15	7.10	7.22	7.15	7.17	7.19	7.16	7.19	7.14	7.10	7.17	7.06	7.12	7.10	7.15	7.10	7.13	7.15	7.16	7.17	7.15	7.15	7.17	7.21	7.14	7.12	7.12	7.19	221.68	7.15
FAC - Treated Water	mg/l	0.2 to 4	2.34	2.30	2.08	2.20	2.20	2.24	2.28	2.11	2.22	2.19	2.21	2.12	2.11	2.14	2.09	2.05	2.00	1.94	1.96	2.20	2.30	2.32	2.24	2.18	2.36	2.40	2.38	2.22	2.52	2.40	2.43	68.73	2.22
Total Chlorine Residual Treated	mg/l	0.3 to 7	2.48	2.50	2.32	2.38	2.40	2.42	2.40	2.38	2.38	2.34	2.38	2.26	2.28	2.40	2.30	2.22	2.26	2.17	2.19	2.46	2.48	2.44	2.40	2.48	2.56	2.60	2.64	2.48	2.70	2.52	2.59	74.81	2.41
Temperature	C	15	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.0	4.0	73.0	2.4
Fluoride used (Total Daily Consumption)	kg	n/a	20.0	22.0	23.0	19.0	18.0	18.0	18.0	19.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	19.0	18.0	17.0	18.0	18.0	17.0	18.0	19.0	20.0	20.0	19.0	20.0	19.0	19.0	580.0	18.7
Chlorine used (Total Daily Consumption)	kg	n/a	21.0	20.0	20.0	20.0	21.0	20.0	20.0	21.0	22.0	23.0	22.0	22.0	22.0	22.0	22.0	23.0	22.0	22.0	23.0	20.0	22.0	23.0	24.0	21.0	23.0	22.0	22.0	22.0	22.0	23.0	674.0	21.7	
Soda ash (Total Daily Consumption)	kg	n/a	189.0	186.6	187.3	184.8	188.0	190.8	185.5	196.7	193.2	198.8	191.5	195.3	195.3	197.1	195.3	194.6	197.1	200.2	201.6	186.6	196.0	196.7	196.7	191.5	196.7	197.1	199.5	194.6	195.3	195.7	195.7	6010.2	193.9
Soda Ash - Dosage	mg/l	n/a	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	35.0	35.0	35.0	35.0	1085.0	35.0
Alum residual - (Total Daily Consumption)	kg	n/a	189.0	186.6	187.3	184.8	188.0	190.8	185.5	196.7	193.2	198.8	191.5	195.3	195.3	197.1	195.3	194.6	197.1	200.2	201.6	186.6	196.0	196.7	196.7	191.5	196.7	197.1	199.5	194.6	195.3	195.7	195.7	6010.2	193.9
Alum residual - Dosage	mg/l	n/a	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	35.0	35.0	35.0	35.0	1085.0	35.0
Alum residual - Treated Water	mg/l	0.1	0.06	0.07	0.08	0.07	0.08	0.08	0.08	0.06	0.04	0.02	0.01	0.03	0.04	0.06	0.04	0.04	0.02	0.06	0.05	0.05	0.04	0.05	0.04	0.06	0.05	0.05	0.06	0.07	0.06	0.06	0.04	1.62	0.05
Poly bags added (25 kg bags)	kg									0.5					0.5		0.5					0.5									0.5			62.5	

Maximum Minimum

5.76	5.28
65.96	62.50
4.60	2.95
89.95	77.49
89.95	0.18

0.56 Fluoride - Treated Water

7.20 PH - Adjusted

2.41 Total Chlorine Residual - Treated Water

0.05 Aluminum Sulphate - Treated Water