

# **NIAGARA FALLS WATER TREATMENT PLANT**

## **ANNUAL SUMMARY REPORT**

(prepared under Ontario Regulation 170/03)

**January 1 to December 31, 2018**

**Ministry of the Environment, Conservation and Parks**

**Drinking Water Works Permit # 007-202  
Municipal Drinking Water License # 007-102**

1. Failure to meet with the requirements of the Act, the regulation, the system's approval:

The Niagara Falls Water Treatment Plant was operated in such a way that at no time did it fail to meet or exceed the requirements of the Act, the Regulations, the system's approval or any order that may have been issued for this reporting period.

2. A summary of flows for the reporting period January 1, 2018 – December 31, 2018

2018	TOTAL FLOW		AVERAGE DAY		MAX. DAY	MIN. DAY	MAX. FLOW RATE	MIN. FLOW RATE	WASTE SLUDGE
Date	Raw (ML)	Treated (ML)	Raw (ML)	Treated (ML)	Treated (ML)	Treated (ML)	Treated (ML/d)	Treated (ML/d)	(ML)
Jan	1374.275	1257.808	44.331	40.574	50.967	36.870	57.200	17.000	0.876
Feb	1206.517	1090.977	43.090	38.963	42.430	34.928	63.509	17.580	0.113
Mar	1360.299	1202.922	43.881	40.097	48.097	34.670	75.790	16.080	2.169
Apr	1265.187	1156.643	42.173	38.555	46.171	29.370	60.751	14.530	2.189
May	1489.074	1385.821	48.035	44.704	57.808	36.843	76.225	21.030	0.229
Jun	1744.255	1638.605	58.142	54.620	74.508	42.024	119.450	25.470	0.421
Jul	2077.807	1971.490	67.026	63.596	74.286	49.241	108.978	17.990	1.662
Aug	1729.568	1670.229	55.793	53.878	66.362	46.104	84.297	25.490	0.432
Sep	1432.248	1375.239	47.742	45.841	54.533	36.727	77.110	25.120	0.288
Oct	1318.990	1255.997	42.548	40.516	45.471	34.508	61.161	24.870	1.753
Nov	1195.792	1125.617	39.860	37.521	42.513	33.112	65.780	18.290	4.743
Dec	1254.508	1192.650	40.468	38.473	44.726	29.246	68.601	17.930	0.688
<b>TOTAL</b>	<b>17,448.520</b>	<b>16,323.998</b>							<b>15.563</b>
<b>MIN</b>						<b>29.246</b>		<b>14.530</b>	<b>0.113</b>
<b>MAX</b>					<b>74.508</b>		<b>119.450</b>		<b>4.743</b>
<b>AVG</b>		<b>1,360.33</b>	<b>47.76</b>	<b>44.78</b>					<b>1.297</b>

\*The flow rates are moments in time, and can be affected by various circumstances, such as pump changes or valve position and therefore not unusual to have higher or lower than normal flow.

3. A comparison of actual flows to the flow rates set out in the system's approval:

Flow rates as set in:

- Drinking Water Works Permit # 007-202
- Municipal Drinking Water License # 007-102

Maximum daily flow: 145.500 ML

Maximum flow rate: 145.500 ML/day

2018	AVERAGE DAY	% OF RATED CAPACITY	MAX. DAY	% OF RATED CAPACITY	MAX. FLOW RATE	% OF RATED CAPACITY
Date	Treated (ML)		Treated (ML)		Treated (ML/d)	
Jan	40.574	28%	50.967	35%	57.200	39%
Feb	38.963	27%	42.430	29%	63.509	44%
Mar	40.097	28%	48.097	33%	75.790	52%
Apr	38.555	27%	46.171	32%	60.751	42%
May	44.704	31%	57.808	40%	76.225	52%
Jun	54.620	38%	74.508	51%	119.450	82%
Jul	63.596	44%	74.286	51%	108.978	75%
Aug	53.878	37%	66.362	46%	84.297	58%
Sep	45.841	32%	54.533	37%	77.110	53%
Oct	40.516	28%	45.471	31%	61.161	42%
Nov	37.521	26%	42.513	29%	65.780	45%
Dec	38.473	26%	44.726	31%	68.601	47%