



REGIONAL MUNICIPALITY OF NIAGARA
Public Works Department
Water & Wastewater Services Division

WELLAND WATER TREATMENT PLANT

ANNUAL SUMMARY REPORT

(Prepared under Ontario Regulation 170/03)

January 1 to December 31, 2020

Ministry of the Environment, Conservation and Parks

Drinking Water Works Permit # 007-204
Municipal Drinking Water License # 007-104

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

The Welland Water Treatment Plant was operated in such a way that at no time did it fail to meet or exceed the requirements of the Safe Drinking Water Act, associated 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, 2020 – December 31, 2020

2020	TOTAL FLOW Raw (ML)	TOTAL FLOW Treated (ML)	AVERAGE DAY Raw (ML)	AVERAGE DAY Treated (ML)	MAX. DAY Treated (ML)	MIN. DAY Treated (ML)	MAX. FLOW RATE Treated (ML/d)	MIN. FLOW RATE Treated (ML/d)	WASTE SLUDGE (ML)
Jan	706.650	694.271	22.795	22.422	27.938	16.718	44.937	16.438	24.390
Feb	638.050	624.635	22.796	22.364	26.226	20.346	43.138	25.044	26.272
Mar	693.520	678.670	22.372	21.920	24.269	19.592	43.194	24.131	28.105
Apr	648.780	643.871	21.626	21.489	23.816	19.370	43.500	20.981	18.966
May	729.070	707.881	23.518	22.860	33.272	9.294	48.819	16.994	21.757
Jun	836.560	824.254	27.885	27.507	36.366	21.690	46.388	16.050	31.735
Jul	936.980	933.306	30.225	30.153	35.878	22.976	43.331	14.869	27.105
Aug	927.740	924.148	29.927	29.852	36.248	24.684	55.987	14.464	27.260
Sep	816.530	807.263	27.218	26.940	31.480	22.196	43.400	12.032	29.355
Oct	738.530	735.738	23.824	23.759	27.196	20.788	53.575	16.919	20.927
Nov	722.150	704.035	24.072	23.492	26.630	15.432	46.856	5.188	24.128
Dec	733.580	715.914	23.664	23.119	26.460	20.834	42.769	9.111	25.077
TOTAL	9128.140	8993.984							305.077
MIN						9.294		5.188	18.966
MAX					36.366		55.987		305.077
AVG			24.993	24.656					25.423

*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 that of the flow rates set out in the system's approval

Flow rates as set in:

- Drinking Water Works Permit # 007-204
- Municipal Drinking Water License # 007-104

Maximum daily flow 65.000 ML

Maximum flow rate 65.000 ML/day

2020	AVERAGE DAY Treated (ML)	% OF RATED CAPACITY	MAX. DAY Treated (ML)	% OF RATED CAPACITY	MAX. FLOW RATE Treated (ML/d)	% OF RATED CAPACITY
Jan	22.422	34.5%	27.938	43.0%	44.937	69.1%
Feb	22.364	34.4%	26.226	40.3%	43.138	66.4%
Mar	21.920	33.7%	24.269	37.3%	43.194	66.5%
Apr	21.489	33.1%	23.816	36.6%	43.500	66.9%
May	22.860	35.2%	33.272	51.2%	48.819	75.1%
Jun	27.507	42.3%	36.366	55.9%	46.388	71.4%
Jul	30.153	46.4%	35.878	55.2%	43.331	66.7%
Aug	29.852	45.9%	36.248	55.8%	55.987	86.1%
Sep	26.940	41.4%	31.480	48.4%	43.400	66.8%
Oct	23.759	36.6%	27.196	41.8%	53.575	82.4%
Nov	23.492	36.1%	26.630	41.0%	46.856	72.1%
Dec	23.119	35.6%	26.460	40.7%	42.769	65.8%