



Welland Water Treatment Plant

Regional Municipality of Niagara

2024 Summary Report

(Prepared under Ontario Regulation 170/03)

January 1 to December 31, 2024

Ministry of the Environment, Conservation and Parks

Municipal Drinking Water License # 007-104

Drinking Water Works Permit # 007-204

Welland Water Treatment Plant - 2024 Summary Report

This report summarizes the water flows for the Welland Water Treatment Plant, drinking water system number 220002048, from January 1 to December 31, 2024

This report satisfies the requirements of Ontario Regulation 170/03 – Drinking Water Systems.

Inspection Rating

The Welland Water Treatment Plant was granted a 100% inspection rating during the 2023-2024 Ministry of Environment, Conservation and Parks annual drinking water system inspection.

Summary of Non-Compliance

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.

Summary of Water Treatment Plant Flows

The flow rates captured below are moments in time, and can be affected by various circumstances, such as pump changes or valve position. It is not unusual to have higher or lower than normal flows for this reason.

Month	Total Flow Raw (ML)	Total Flow Treated (ML)	Average Day Raw (ML)	Average Day Treated (ML)	Maximum Day Treated (ML)	Minimum Day Treated (ML)	Maximum Flow Rate Treated (ML/d)	Minimum Flow Rate Treated (ML/d)	Total Waste Sludge (ML)
Jan	735.870	716.270	23.738	23.131	26.498	20.610	46.050	23.739	33.358
Feb	691.390	673.211	23.841	23.240	25.640	21.524	43.237	23.331	32.494
Mar	728.810	699.361	23.510	22.588	27.414	19.800	42.650	26.550	47.409
Apr	697.860	677.804	23.262	22.618	24.316	20.150	43.025	25.269	36.027
May	795.430	772.673	25.659	24.953	30.268	22.272	43.269	20.827	51.862
Jun	836.350	814.931	27.878	27.197	39.100	22.760	49.340	22.277	65.666
Jul	888.530	870.594	55.456	28.121	33.326	23.244	43.062	15.613	30.324
Aug	879.680	850.967	28.377	27.490	34.248	24.040	43.069	19.320	41.670
Sep	808.560	785.332	26.952	26.208	29.320	22.944	43.356	25.962	34.596
Oct	771.850	756.820	24.898	24.438	27.164	21.212	43.088	24.056	23.174
Nov	713.650	694.207	23.788	23.164	27.536	18.852	43.138	13.525	26.988
Dec	783.190	762.662	25.264	24.625	29.092	21.080	43.413	22.006	29.894

Month	Total Flow Raw (ML)	Total Flow Treated (ML)	Average Day Raw (ML)	Average Day Treated (ML)	Maximum Day Treated (ML)	Minimum Day Treated (ML)	Maximum Flow Rate Treated (ML/d)	Minimum Flow Rate Treated (ML/d)	Total Waste Sludge (ML)
Total	9331.170	9074.831							453.462
Min						18.852		13.525	23.174
Max					39.100		49.340		453.462
Avg.			27.719	24.815					37.789

Comparison of Actual to System Approved Flow

Flow rates are required by Municipal Drinking Water Licence number 007-104.

- Maximum daily flow: 65.000 ML
- Maximum flow rate: 65.000 ML/day

Month	Average Day Treated (ML)	% of Rated Capacity	Maximum Day Treated (ML)	% of Rated Capacity	Maximum Flow Rate Treated (ML/d)	% of Rated Capacity
Jan	23.131	35.58%	26.498	40.75%	46.050	70.84%
Feb	23.240	35.75%	25.640	39.44%	43.237	66.50%
Mar	22.588	34.73%	27.414	42.16%	42.650	65.61%
Apr	22.618	34.78%	24.316	37.40%	43.025	66.18%
May	24.953	38.38%	30.268	46.55%	43.269	66.55%
Jun	27.197	41.83%	39.100	60.15%	49.340	75.90%
Jul	28.121	43.26%	33.326	51.26%	43.062	66.24%
Aug	27.490	42.29%	34.248	52.67%	43.069	66.24%
Sep	26.208	40.30%	29.320	45.10%	43.356	66.69%
Oct	24.438	37.58%	27.164	41.78%	43.088	66.27%
Nov	23.164	35.63%	27.536	42.35%	43.138	66.35%
Dec	24.625	37.87%	29.092	44.75%	43.413	66.78%