



Niagara Falls Water Treatment Plant

Regional Municipality of Niagara

2023 Summary Report

(Prepared under Ontario Regulation 170/03)

January 1 to December 31, 2023

Ministry of the Environment, Conservation and Parks

Municipal Drinking Water License # 007-102

Drinking Water Works Permit # 007-202

Niagara Falls Water Treatment Plant - 2023 Summary Report

This report summarizes the water flows for the Niagara Falls Water Treatment Plant, drinking water system number 220002084, from January 1 to December 31, 2023.

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

Inspection Rating

The Niagara Falls Water Treatment Plant was granted a 100% inspection rating during the 2022/2023 Ministry of Environment, Conservation and Parks annual drinking water system inspection.

Summary of Non-Compliance

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 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)	Minimum Day Treated (ML)	Maximum Day Treated (ML)	Minimum Flow Rate Treated (ML/d)	Maximum Flow Rate Treated (ML/d)	Total Waste Sludge (ML)
Jan	1245.744	1157.865	40.185	37.350	34.643	46.341	0.034	97.368	0.122
Feb	1176.875	1074.568	42.031	38.377	33.242	42.877	0.034	62.564	0.91
Mar	1307.847	1198.431	42.189	38.659	36.482	41.962	0.039	57.459	1.692
Apr	1321.641	1222.289	44.055	40.743	38.055	45.280	0.016	59.039	0.36
May	1514.911	1411.091	48.868	45.519	40.547	60.589	0.001	107.905	1.271
Jun	1643.980	1526.914	54.799	50.897	42.352	59.673	0.023	82.953	0.007
Jul	1658.562	1555.532	53.502	50.178	42.617	57.382	0.056	74.729	0.007
Aug	1588.879	1484.242	51.254	47.879	43.333	50.993	0.044	74.472	0.052
Sep	1483.887	1390.496	49.463	46.350	42.732	55.388	0.044	67.233	0.042
Oct	1389.823	1298.760	44.833	41.895	37.085	48.253	0.027	56.961	0.064
Nov	1270.178	1173.629	42.339	39.121	36.061	42.140	0.039	74.913	0.037
Dec	1299.291	1219.772	41.913	39.347	35.568	44.422	0.022	62.278	0.042

Month	Total Flow Raw (ML)	Total Flow Treated (ML)	Average Day Raw (ML)	Average Day Treated (ML)	Minimum Day Treated (ML)	Maximum Day Treated (ML)	Minimum Flow Rate Treated (ML/d)	Maximum Flow Rate Treated (ML/d)	Total Waste Sludge (ML)
Total	16901.618	15713.589							30.282
Min							33.242		0.000
Max						60.589		107.905	30.160
Avg		1,309.47	46.29	43.03					2.524

Comparison of Actual to System Approved Flow

Flow rates are required by Municipal Drinking Water Licence number 007-102.

- Maximum daily flow: 145.500 ML
- Maximum flow rate: 145.500 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	37.350	26%	46.341	32%	97.368	67%
Feb	38.377	26%	42.877	29%	62.564	43%
Mar	38.659	27%	41.962	29%	57.459	39%
Apr	40.743	28%	45.280	31%	59.039	41%
May	45.519	31%	60.589	42%	107.905	74%
Jun	50.897	35%	59.673	41%	82.953	57%
Jul	50.178	34%	57.382	39%	74.729	51%
Aug	47.879	33%	50.993	35%	74.472	51%
Sep	46.350	32%	55.388	38%	67.233	46%
Oct	41.895	29%	48.253	33%	56.961	39%
Nov	39.121	27%	42.140	29%	74.913	51%
Dec	39.347	27%	44.422	31%	62.278	43%