



Grimsby 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

Grimsby Water Treatment Plant - 2023 Summary Report

This report summarizes the water flows for the Grimsby Water Treatment Plant, drinking water system number 220007150, from January 1 to December 31, 2023.

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

Inspection Rating

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

Summary of Non-Compliance

The Grimsby 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)	Max Day Treated (ML)	Min Day Treated (ML)	Max Flow Rate Treated (ML/d)	Min Flow Rate Treated (ML/d)	Total Waste Sludge (ML)
Jan	408.500	383.422	13.177	12.419	13.185	11.214	16.610	8.038	0.780
Feb	377.672	354.863	13.488	12.725	13.636	11.564	17.396	0.000	0.650
Mar	418.207	393.170	13.491	12.739	13.901	11.127	17.729	6.827	1.734
Apr	429.002	405.694	14.300	13.582	16.328	12.058	19.563	7.034	0.694
May	535.168	510.889	17.263	16.541	21.840	12.515	28.007	9.598	1.691
Jun	576.842	554.178	19.228	18.528	25.348	15.214	31.477	4.018	0.780
Jul	538.196	514.122	17.361	16.639	19.354	12.644	24.176	10.687	1.431
Aug	490.550	468.830	15.824	15.174	17.483	12.541	22.357	9.783	0.780
Sep	496.795	476.944	16.560	15.941	17.680	10.478	20.676	0.000	0.694
Oct	467.477	443.585	15.080	14.353	17.741	11.977	22.605	8.150	1.908
Nov	431.786	408.539	14.393	13.663	15.754	11.947	37.502	6.955	1.604
Dec	423.150	399.348	13.650	12.929	14.264	11.765	20.092	8.341	0.867

Month	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)	Total Waste Sludge (ML)
Total	5,593.345	5,313.584							13.615
Min						10.478		0.000	0.650
Max					25.348		31.477		1.908
Avg			15.318	14.603					1.135

Comparison of Actual to System Approved Flow

Flow rates are required by Municipal Drinking Water Licence number 007-105.

- Maximum daily flow: 44.000 ML
- Maximum flow rate: 44.000 ML/day

Month	Average Day Treated (ML)	% of Rated Capacity	Max Day Treated (ML)	% of Rated Capacity	Max Flow Rate Treated (ML/d)	% of Rated Capacity
Jan	12.419	28.225	13.185	29.965	16.610	37.750
Feb	12.725	28.920	13.636	30.990	17.396	39.536
Mar	12.739	28.952	13.901	31.593	17.729	40.293
Apr	13.582	30.868	16.328	37.109	19.563	44.461
May	16.541	37.593	21.840	49.636	28.007	63.652
Jun	18.528	42.109	25.348	57.609	31.477	71.538
Jul	16.639	37.815	19.354	43.986	24.176	54.945
Aug	15.174	34.486	17.483	39.734	22.357	50.811
Sep	15.941	36.229	17.680	40.181	20.676	46.990
Oct	14.353	32.620	17.741	40.320	22.605	51.375
Nov	13.663	31.052	15.754	35.804	37.502	85.231
Dec	12.929	29.384	14.264	32.418	20.092	45.663