



Grimsby Water Treatment Plant

Regional Municipality of Niagara

2022 Summary Report

(Prepared under Ontario Regulation 170/03)

January 1 to December 31, 2022

Ministry of the Environment, Conservation and Parks

Municipal Drinking Water License # 007-105

Drinking Water Works Permit # 007-205

Grimsby Water Treatment Plant - 2022 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, 2022.

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 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)	Maximum Day Treated (ML)	Minimum Day Treated (ML)	Minimum Flow Rate Treated (ML/d)	Maximum Flow Rate Treated (ML/d)	Total Waste Sludge (ML)
Jan	359.524	394.444	11.598	12.742	13.917	8.563	0.000	18.802	1.041
Feb	352.367	366.824	12.585	13.121	14.614	10.733	7.751	17.986	0.262
Mar	411.480	380.885	13.274	12.721	17.297	11.015	6.982	18.219	1.691
Apr	418.153	389.809	13.938	13.039	15.796	12.423	0.574	18.913	0.607
May	499.819	476.156	16.123	15.409	21.272	13.409	6.991	27.544	0.997
Jun	568.562	543.011	18.952	18.150	24.648	14.141	0.000	30.376	1.691
Jul	651.669	628.695	21.022	20.328	25.322	16.649	0.000	30.757	0.607
Aug	590.206	567.245	19.039	18.349	22.686	15.222	3.199	26.201	0.780
Sep	486.591	465.565	16.220	15.568	21.810	12.909	8.198	25.845	0.737
Oct	447.134	420.798	14.424	13.626	16.494	12.207	0.000	20.930	2.688
Nov	410.249	385.949	13.675	12.917	15.296	11.892	8.111	18.510	0.564
Dec	410.134	385.799	13.230	12.496	14.505	11.948	6.458	17.104	0.654

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Total	5,605.888	5,405.180							12.320
Min						8.563		0.000	0.262
Max					25.322		30.757		2.688
Avg			15.340	14.872					1.027

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	Maximum Day Treated (ML)	% of Rated Capacity	Maximum Flow Rate Treated (ML/d)	% of Rated Capacity
Jan	12.970	29.5%	8.563	19%	18.802	43%
Feb	13.738	31.2%	10.733	24%	17.986	41%
Mar	13.604	30.9%	11.015	25%	18.219	41%
Apr	13.578	30.9%	12.423	28%	18.913	43%
May	17.731	40.3%	13.409	30%	27.544	63%
Jun	18.790	42.7%	14.141	32%	30.376	69%
Jul	16.434	37.4%	16.649	38%	30.757	70%
Aug	19.317	43.9%	15.222	35%	26.201	60%
Sep	14.984	34.1%	12.909	29%	25.845	59%
Oct	12.892	29.3%	12.207	28%	20.930	48%
Nov	12.364	28.1%	11.892	27%	18.510	42%
Dec	12.211	27.8%	11.948	27%	17.104	39%