



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

GRIMSBY 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

Municipal Drinking Water License # 007-105
Drinking Water Works Permit # 007-205

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

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.

2. A summary of flows for the reporting period January 1, 2020 – December 31, 2020:

2020	TOTAL FLOW		AVERAGE DAY		MAX. DAY	MIN. DAY	MAX. FLOW RATE	MIN. FLOW RATE	WASTE SLUDGE
Date	Raw (ML)	Treated (ML)	Raw (ML)	Treated (ML)	Treated (ML)	Treated (ML)	Treated (ML/D)	Treated (ML/D)	(ML)
Jan	355.286	400.345	11.461	12.938	12.563	9.383	16.786	6.823	0.607
Feb	331.083	372.669	11.417	12.879	12.920	9.975	17.375	6.902	3.772
Mar	395.187	402.080	12.748	12.999	17.916	10.129	17.345	7.605	3.209
Apr	404.926	402.881	13.498	13.470	19.589	10.366	19.197	7.978	3.252
May	446.295	479.691	14.397	15.498	22.120	10.825	29.145	8.996	1.561
Jun	594.249	611.073	19.808	20.392	26.240	15.576	35.423	11.979	4.900
Jul	714.968	712.718	23.063	23.055	28.766	14.141	35.044	9.672	1.734
Aug	638.152	635.407	20.586	20.549	24.836	13.829	30.961	9.633	2.688
Sep	518.823	526.420	17.294	17.570	20.409	13.514	26.141	4.051	2.211
Oct	410.230	427.321	13.233	13.814	15.979	10.613	25.193	7.133	1.171
Nov	349.625	388.834	11.654	12.984	14.169	10.038	18.317	8.176	4.640
Dec	357.738	396.305	11.179	12.740	12.814	8.336	18.192	4.051	0.520
TOTAL	5516.562	5755.744							30.265
MIN						8.336		4.051	0.520
MAX					28.766		35.423		4.900
AVG			15.028	15.741					2.522

* 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 flows.

3. A comparison of actual flows to that of the flow rates set out in the system's approval:

Flow rates as set in:

- Municipal Drinking Water License # 007-105
- Drinking Water Works Permit # 007-205

Maximum daily flow: 44.000 ML

Maximum flow rate: 44.000 ML/day

2020	AVERAGE DAY	% OF RATED CAPACITY	MAX. DAY	% OF RATED CAPACITY	MAX. FLOW RATE	% OF RATED CAPACITY
Date	Treated (ML)		Treated (ML)		Treated (ML/d)	
Jan	12.938	29.4%	12.563	28.6%	16.786	38.2%
Feb	12.879	29.3%	12.920	29.4%	17.375	39.5%
Mar	12.999	29.5%	17.916	40.7%	17.345	39.4%
Apr	13.470	30.6%	19.589	44.5%	19.197	43.6%
May	15.498	35.2%	22.120	50.3%	29.145	66.2%
Jun	20.392	46.3%	26.240	59.6%	35.423	80.5%
Jul	23.055	52.4%	28.766	65.4%	35.044	79.6%
Aug	20.549	46.7%	24.836	56.4%	30.961	70.4%
Sep	17.570	39.9%	20.409	46.4%	26.141	59.4%
Oct	13.814	31.4%	15.979	36.3%	25.193	57.3%
Nov	12.984	29.5%	14.169	32.2%	18.317	41.6%
Dec	12.740	29.0%	12.814	29.1%	18.192	41.3%