

GRIMSBY WATER TREATMENT PLANT

ANNUAL SUMMARY REPORT

(Prepared under Ontario Regulation 170/03)

January 1 to December 31, 2018

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 Act, the regulation, 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, 2018 – December 31, 2018:

2018	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	414.622	416.369	13.375	13.093	15.042	12.022	12.926	13.507	1.106
Feb	354.535	356.979	12.662	12.749	13.878	11.649	17.154	8.002	1.392
Mar	403.471	404.538	13.015	13.050	14.086	12.100	11.695	14.345	0.809
Apr	404.677	396.065	13.489	13.202	14.498	11.857	17.456	8.676	2.307
May	483.141	481.737	15.585	15.540	20.968	13.064	23.167	9.206	0.789
Jun	562.669	558.598	18.756	18.620	23.809	13.312	29.904	8.735	0.707
Jul	636.146	625.639	20.521	20.182	25.717	13.037	33.139	3.704	1.052
Aug	530.532	526.613	17.114	16.988	20.126	13.782	16.651	16.242	1.128
Sep	475.568	468.128	15.852	15.604	18.369	13.308	14.142	15.047	0.974
Oct	423.797	419.155	13.671	13.521	15.265	11.541	12.637	14.356	1.093
Nov	386.797	384.374	12.893	12.812	13.821	11.677	11.686	13.321	2.608
Dec	405.950	404.121	13.095	13.036	14.507	11.071	12.377	12.257	0.481
TOTAL	5481.905	5442.316							14.446
MIN						11.071		3.704	0.481
MAX					25.717		33.139		2.608
AVG			15.002	14.866					1.204

* 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

2018	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	13.093	29.8%	15.042	34.2%	12.926	29.4%
Feb	12.749	29.0%	13.878	31.5%	17.154	39.0%
Mar	13.050	29.7%	14.086	32.0%	11.695	26.6%
Apr	13.202	30.0%	14.498	33.0%	17.456	39.7%
May	15.540	35.3%	20.968	47.7%	23.167	52.7%
Jun	18.620	42.3%	23.809	54.1%	29.904	68.0%
Jul	20.182	45.9%	25.717	58.4%	33.139	75.3%
Aug	16.988	38.6%	20.126	45.7%	16.651	37.8%
Sep	15.604	35.5%	18.369	41.7%	14.142	32.1%
Oct	13.521	30.7%	15.265	34.7%	12.637	28.7%
Nov	12.812	29.1%	13.821	31.4%	11.686	26.6%
Dec	13.036	29.6%	14.507	33.0%	12.377	28.1%