



Decew Falls Water Treatment Plant

Regional Municipality of Niagara

2021 Summary Report

(Prepared under Ontario Regulation 170/03)

January 1 to December 31, 2021

Ministry of the Environment, Conservation and Parks

**Municipal Drinking Water License # 007-102
Drinking Water Works Permit # 007-202**

Decew Falls Water Treatment Plant - 2021 Summary Report

This report summarizes the water flows for the Decew Falls Water Treatment Plant, drinking water system number 220002066, from January 1 to December 31, 2021.

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

Summary of Non-Compliance

The Decew 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	1562.895	1355.839	50.416	43.737	44.509	57.904	15.690	100.496	3.64
Feb	1454.699	1252.320	51.954	44.726	44.764	55.042	20.413	96.853	3.77
Mar	1644.981	1420.821	53.064	45.833	49.267	57.201	13.900	73.007	0.95
Apr	1571.244	1376.492	52.375	45.883	49.405	56.137	16.459	76.941	6.68
May	1955.482	1705.115	63.080	55.004	51.139	84.013	21.424	94.649	6.24
Jun	1993.705	1777.053	66.457	59.235	58.630	75.612	33.117	89.311	4.84
Jul	1978.259	1748.107	63.815	56.391	57.153	72.644	30.997	87.551	0.87
Aug	2249.079	2002.685	72.551	64.603	57.824	84.170	34.533	103.122	1.08
Sep	1845.196	1641.084	61.507	54.703	51.642	69.753	25.718	86.602	3.25
Oct	1696.181	1514.971	54.716	48.870	47.322	59.399	20.326	78.197	2.78
Nov	1554.811	1374.951	51.827	45.832	46.823	56.986	15.862	83.160	3.25
Dec	1598.227	1381.280	51.556	44.557	47.622	58.788	21.689	67.872	3.90

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	21104.759	18550.718							41.259
Min					44.509		13.900		0.867
Max						84.170		103.122	6.677
Avg		1545.893	57.776	50.781					3.438

Comparison of Actual to System Approved Flow

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

- Maximum daily flow: 227.300 ML
- Maximum flow rate: 227.300 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	43.737	19.2%	57.904	25.5%	100.496	44.2%
Feb	44.726	19.7%	55.042	24.2%	96.853	42.6%
Mar	45.833	20.2%	57.201	25.2%	73.007	32.1%
Apr	45.883	20.2%	56.137	24.7%	76.941	33.8%
May	55.004	24.2%	84.013	37.0%	94.649	41.6%
Jun	59.235	26.1%	75.612	33.3%	89.311	39.3%
Jul	56.391	24.8%	72.644	32.0%	87.551	38.5%
Aug	64.603	28.4%	84.170	37.0%	103.122	45.4%
Sep	54.703	24.1%	69.753	30.7%	86.602	38.1%
Oct	48.870	21.5%	59.399	26.1%	78.197	34.4%
Nov	45.832	20.2%	56.986	25.1%	83.160	36.6%
Dec	44.557	19.6%	58.788	25.9%	67.872	29.9%