



Decew Falls 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 # 007-102

Drinking Water Works Permit # 007-202

Decew Falls Water Treatment Plant - 2022 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, 2022.

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)	Maximum Day Treated (ML)	Minimum Day Treated (ML)	Maximum Flow Rate Treated (ML/d)	Minimum Flow Rate Treated (ML/d)	Total Waste Sludge (ML)
Jan	1621.289	1400.806	52.300	45.187	57.174	48.354	99.812	22.267	0.780
Feb	1536.207	1322.016	54.865	47.215	58.242	50.625	77.037	21.523	0.953
Mar	1722.665	1487.154	55.570	47.973	60.210	48.642	69.866	24.698	3.816
Apr	1634.498	1398.694	54.483	46.623	59.099	51.415	70.408	22.042	5.333
May	1805.569	1606.736	58.244	51.830	69.822	49.398	81.821	24.843	4.336
Jun	1974.112	1850.799	65.804	61.693	80.783	43.363	167.580	28.895	0.824
Jul	2206.924	2148.653	71.191	69.311	83.355	56.265	97.616	38.701	5.507
Aug	2291.415	2029.865	73.917	65.480	84.393	59.788	105.516	33.925	0.520
Sep	1911.912	1693.780	63.730	56.459	78.228	54.847	120.144	24.967	6.677
Oct	1668.157	1489.743	53.812	48.056	60.556	48.004	78.430	24.712	0.824
Nov	1645.844	1433.801	54.861	47.793	61.245	48.870	99.041	23.500	4.509
Dec	1693.148	1471.819	54.618	47.478	60.097	48.261	87.013	25.391	0.737

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	21711.74	19333.86							34.817
Min					43.363		21.523		0.520
Max						84.393		167.58	6.677
Avg.			59.449	52.925					2.901

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	45.126	20%	51.789	22.78%	99.812	43.91%
Feb	47.214	21%	50.056	22.02%	77.037	33.89%
Mar	47.972	21%	57.201	25.17%	69.866	25.19%
Apr	46.623	21%	48.48	21.33%	70.408	25.39%
May	51.83	23%	63.759	28.05%	81.821	35.99%
Jun	61.693	27%	75.069	33.02%	167.58	73.73%
Jul	69.311	30%	79.893	35.12%	97.616	42.94%
Aug	65.479	29%	72.177	31.75%	105.516	46.42%
Sep	56.45	25%	65.269	23.53%	120.144	52.86%
Oct	48.056	21%	52.371	23.04%	78.43	34.51%
Nov	47.793	21%	51.024	18.40%	99.041	43.57%
Dec	47.478	21%	50.996	17.12%	87.013	38.29%



Welland 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 # 007-104

Drinking Water Works Permit # 007-204

Welland Water Treatment Plant - 2022 Summary Report

This report summarizes the water flows for the Welland Water Treatment Plant, drinking water system number 220002048, from January 1 to December 31, 2022.

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

Inspection Rating

The Welland 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 Welland 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)	Maximum Flow Rate Treated (ML/d)	Minimum Flow Rate Treated (ML/d)	Total Waste Sludge (ML)
Jan	791.900	745.639	25.545	24.093	27.312	19.603	58.523	18.032	57.420
Feb	715.520	679.868	25.554	24.328	26.843	22.014	43.288	20.870	44.375
Mar	769.730	719.873	24.830	23.245	26.336	20.677	45.112	15.412	60.372
Apr	705.150	660.543	23.505	22.041	24.093	19.378	43.306	18.854	52.409
May	781.760	745.013	25.218	24.060	28.798	20.560	45.825	15.196	62.247
Jun	811.900	780.721	27.063	26.059	31.659	22.472	43.362	20.916	42.262
Jul	915.390	875.502	29.529	28.295	35.353	20.252	44.831	25.057	52.547
Aug	895.790	853.648	28.896	27.580	32.320	23.226	43.100	21.395	56.998
Sep	770.180	721.169	25.673	24.073	26.942	20.883	45.825	20.458	62.830
Oct	728.050	684.388	23.485	22.104	25.736	19.490	42.862	20.371	53.148
Nov	670.280	650.627	22.343	21.717	24.032	19.436	42.819	21.704	27.229
Dec	735.810	701.296	23.736	22.655	24.196	20.924	46.994	23.130	39.483

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)	Maximum Flow Rate Treated (ML/d)	Minimum Flow Rate Treated (ML/d)	Total Waste Sludge (ML)
Total	9291.460	8818.289							611.320
Min						19.378		15.196	27.229

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)	Maximum Flow Rate Treated (ML/d)	Minimum Flow Rate Treated (ML/d)	Total Waste Sludge (ML)
Max					35.353		58.523		62.830
Avg.			25.448	24.188					50.943

Comparison of Actual to System Approved Flow

Flow rates are required by Municipal Drinking Water Licence number 007-104.

- Maximum daily flow: 65.000 ML
- Maximum flow rate: 65.000 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	24.093	37%	27.312	30%	58.523	89%
Feb	24.328	37%	26.843	34%	43.288	66%
Mar	23.245	36%	26.336	32%	45.112	68%
Apr	22.041	34%	24.093	30%	43.306	66%
May	24.060	37%	28.798	32%	45.825	69%
Jun	26.059	40%	31.659	35%	43.362	66%
Jul	28.295	44%	35.353	31%	44.831	68%
Aug	27.580	42%	32.320	36%	43.100	65%
Sep	24.073	37%	26.942	32%	45.825	69%
Oct	22.104	34%	25.736	30%	42.862	65%
Nov	21.717	33%	24.032	30%	42.819	65%
Dec	22.655	35%	24.196	32%	46.994	71%



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Jan	1621.289	1400.806	52.300	45.187	51.789	42.183	99.812	22.267	0.780
Feb	1536.207	1322.016	54.865	47.215	50.056	44.813	77.037	21.523	0.953
Mar	1722.665	1487.154	55.570	47.973	51.180	45.433	69.866	24.698	3.816
Apr	1634.498	1398.694	54.483	46.623	48.480	43.015	70.408	22.042	5.333
May	1805.569	1606.736	58.244	51.830	63.759	43.987	81.821	24.843	4.336
Jun	1974.112	1850.799	65.804	61.693	75.069	50.790	167.580	28.895	0.824
Jul	2206.924	2148.653	71.191	69.311	79.893	60.018	97.616	38.701	5.507
Aug	2291.415	2029.865	73.917	65.480	72.177	58.497	105.516	33.925	0.520
Sep	1911.912	1693.780	63.730	56.459	65.269	49.186	120.144	24.967	6.677
Oct	1668.157	1489.743	53.812	48.056	52.371	44.873	78.430	24.712	0.824
Nov	1645.844	1433.801	54.861	47.793	51.024	45.380	99.041	23.500	4.509
Dec	1693.148	1471.819	54.618	47.478	50.996	44.849	87.013	25.391	0.737

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)	Maximum Flow Rate Treated (ML/d)	Minimum Flow Rate Treated (ML/d)	Total Waste Sludge (ML)
Total	21711.740	19333.866							34.817
Min						42.183		21.523	0.520
Max					79.893		167.580		6.677
Avg.			59.449	52.925					2.901

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	45.187	20%	51.789	23%	99.812	44%
Feb	47.215	21%	50.056	22%	77.037	34%
Mar	47.973	21%	51.180	23%	69.866	31%
Apr	46.623	21%	48.480	21%	70.408	31%
May	51.830	23%	63.759	28%	81.821	36%
Jun	61.693	27%	75.069	33%	167.580	74%
Jul	69.311	30%	79.893	35%	97.616	43%
Aug	65.480	29%	72.177	32%	105.516	46%
Sep	56.459	25%	65.269	29%	120.144	53%
Oct	48.056	21%	52.371	23%	78.430	35%
Nov	47.793	21%	51.024	22%	99.041	44%
Dec	47.478	21%	50.996	22%	87.013	38%