
MEMORANDUM

PWC-C 6-2021

Subject: Niagara Water Treatment Plant 2020 Summary Reports

Date: March 9, 2021

To: Public Works Committee

From: Jen Croswell, C.Tech., Water Compliance Specialist

A Drinking Water Summary Report (Summary Report), required under the Safe Drinking Water Act, 2002, has been prepared for each of Niagara Region's six drinking water treatment plants for January 1, 2020 through December 31, 2020, inclusive. The 2020 Summary Reports have been provided as appendices and include:

- A description of any failure to meet the requirements of any governing Act, Regulation, Order or Approval that the Drinking Water System operates under, along with the actions the Operating Authority undertook to mitigate any such non-compliance;
- A summary of water flow rates including maximum daily flow rates and instantaneous peak flow rates in comparison with the capacity of the water works identified in the drinking water licence and permit. This information is included for the purpose of allowing the owner (Niagara Region) of the system to assess the capability of the system to meet existing and planned uses of the system.

The intent of the Summary Report is to provide full disclosure and acts as an instrument to ensure Council, senior management, regulatory agencies and the public are made aware of any non-compliance issues which occurred during the last inspection period. The inspection period runs annually (April 1 – March 31) and typically includes a review of information from the previous year.

Inspections were completed for all of Niagara Region's water treatment plants. All water treatment plants obtained a 100% compliance score on the Ministry of Environment, Conservation and Parks Inspection Rating Report with no indication of non-compliance with associated requirements.

May this memorandum serve as acknowledgment of receipt of the Summary Reports by the system owner, Council.

In addition to the Summary Reports, staff have produced Annual Water Quality Reports (Annual Reports) for each of Niagara Region's six drinking water treatment plants, as required by the Safe Drinking Water Act, 2002. The [Annual Reports](https://www.niagararegion.ca/living/water/Water-Quality-Reports/default.aspx) have been made available to the public via the Niagara Region website (<https://www.niagararegion.ca/living/water/Water-Quality-Reports/default.aspx>).

Respectfully submitted and signed by

Jen Croswell, C.Tech.
Water Compliance Specialist

Appendices

Appendix 1 – Decew Falls Water Treatment Plant 2020 Summary Report

Appendix 2 – Niagara Falls Water Treatment Plant 2020 Summary Report

Appendix 3 – Rosehill Water Treatment Plant 2020 Summary Report

Appendix 4 – Port Colborne Water Treatment Plant 2020 Summary Report

Appendix 5 – Grimsby Water Treatment Plant 2020 Summary Report

Appendix 6 – Welland Water Treatment Plant 2020 Summary Report



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

DECEW FALLS 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 # 007-102
Drinking Water Works Permit # 007-202

1. Failure to meet with the requirements of the Act, the regulation, the system's approval
2. 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.
3. A summary of flows for the reporting period January 1, 2020 – December 31, 2020

2020	TOTAL FLOW Raw (ML)	TOTAL FLOW Treated (ML)	AVERAGE DAY Raw (ML)	AVERAGE DAY Treated (ML)	MAX. DAY Treated (ML)	MIN. DAY Treated (ML)	MAX. FLOW RATE Treated (ML/d)	MIN. FLOW RATE Treated (ML/d)	WASTE SLUDGE Treated (ML)
Jan	1653.744	1463.184	53.347	47.199	58.952	48.232	70.797	19.404	0.607
Feb	1535.691	1362.808	52.955	46.993	59.038	45.649	85.214	24.411	3.772
Mar	1700.193	1450.207	54.845	46.781	59.645	52.007	91.181	18.465	3.209
Apr	1583.666	1360.697	52.789	45.357	56.979	48.343	74.223	17.228	3.252
May	1759.617	1541.978	56.762	49.741	71.748	46.067	91.741	12.735	1.561
Jun	2072.657	1883.427	69.089	62.781	82.544	56.849	106.460	28.356	4.900
Jul	2548.323	2291.738	82.204	73.927	99.240	66.344	140.656	37.164	1.734
Aug	2352.984	2135.813	75.903	68.897	92.054	61.948	103.081	37.616	2.688
Sep	2015.590	1817.720	67.186	60.591	78.071	56.100	176.072	27.349	2.211
Oct	1707.174	1535.289	55.070	49.525	61.086	50.900	90.646	20.936	1.171
Nov	1554.888	1380.278	51.830	46.009	55.824	48.936	88.154	20.673	4.640
Dec	1542.423	1317.753	49.756	42.508	56.189	45.957	73.868	12.366	0.520
TOTAL	22026.950	19540.892							30.265
MIN						45.649		12.366	0.520
MAX					99.240		176.072		4.900
AVG			60.144	53.359					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 # 007-102
- Drinking Water Works Permit # 007-202

Maximum daily flow: 227.300 ML

Maximum flow rate: 227.300 ML/day

2020	AVERAGE DAY Treated (ML)	% OF RATED CAPACITY	MAX. DAY Treated (ML)	% OF RATED CAPACITY	MAX. FLOW RATE Treated (ML/d)	% OF RATED CAPACITY
Jan	47.199	20.8%	58.952	26.0%	70.797	31.2%
Feb	46.993	20.7%	59.038	26.0%	85.214	37.5%
Mar	46.781	20.6%	59.645	26.3%	91.181	40.2%
Apr	45.357	20.0%	56.979	25.1%	74.223	32.7%
May	49.741	21.9%	71.748	31.6%	91.741	40.4%
Jun	62.781	27.7%	82.544	36.4%	106.460	46.9%
Jul	73.927	32.6%	99.240	43.7%	140.656	62.0%
Aug	68.897	30.4%	92.054	40.6%	103.081	45.4%
Sep	60.591	26.7%	78.071	34.4%	176.072	77.6%
Oct	49.525	21.8%	61.086	26.9%	90.646	39.9%
Nov	46.009	20.3%	55.824	24.6%	88.154	38.8%
Dec	42.508	18.7%	56.189	24.8%	73.868	32.5%

NIAGARA FALLS 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

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

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

The Niagara 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.

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	1282.524	1111.375	41.372	35.851	41.036	25.466	58.100	13.821	1.273
Feb	1178.148	1085.985	40.626	37.448	42.226	31.518	76.681	4.640	1.260
Mar	1195.610	1086.552	38.568	35.050	39.546	30.725	56.045	12.027	0.439
Apr	1083.779	987.507	36.126	32.917	36.344	29.217	61.459	0.079	46.946
May	1282.259	1142.771	41.363	36.864	49.087	29.880	79.496	0.067	0.634
Jun	1457.785	1373.233	48.593	45.774	57.581	32.869	78.517	0.084	1.184
Jul	1759.797	1678.408	56.768	54.142	69.630	45.766	65.583	43.486	1.320
Aug	1643.961	1570.189	53.031	50.651	59.930	40.966	91.605	0.090	1.107
Sep	1429.602	1315.257	47.653	43.842	49.622	37.212	83.594	0.079	1.131
Oct	1204.488	1158.053	38.854	37.357	44.147	33.128	79.571	13.500	1.065
Nov	1115.741	1063.776	37.191	35.459	39.213	31.877	62.593	0.011	0.501
Dec	1178.720	1120.037	38.023	36.130	40.719	32.089	54.701	8.371	2.134
TOTAL	15812.414	14693.143							58.994
MIN						25.466		0.011	0.439
MAX					69.630		91.605		46.946
AVG		1224.429	43.181	40.124					4.916

*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 flow.

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

Flow rates as set in:

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

Maximum daily flow: 145.500 ML

Maximum flow rate: 145.500 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	35.851	24.6%	41.036	28.2%	58.100	39.9%
Feb	37.448	25.7%	42.226	29.0%	76.681	52.7%
Mar	35.050	24.1%	39.546	27.2%	56.045	38.5%
Apr	32.917	22.6%	36.344	25.0%	61.459	42.2%
May	36.864	25.3%	49.087	33.7%	79.496	54.6%
Jun	45.774	31.5%	57.581	39.6%	78.517	54.0%
Jul	54.142	37.2%	69.630	47.9%	65.583	45.1%
Aug	50.651	34.8%	59.930	41.2%	91.605	63.0%
Sep	43.842	30.1%	49.622	34.1%	83.594	57.5%
Oct	37.357	25.7%	44.147	30.3%	79.571	54.7%
Nov	35.459	24.4%	39.213	27.0%	62.593	43.0%
Dec	36.130	24.8%	40.719	28.0%	54.701	37.6%



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

ROSEHILL 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

Drinking Water Works Permit # 007-203
Municipal Drinking Water License # 007-103

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

The Rosehill 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	339.055	275.839	10.937	8.898	9.686	8.256	22.170	1.435	34.755
Feb	296.089	261.299	10.210	9.010	9.923	8.120	20.652	2.717	14.030
Mar	323.797	280.169	10.445	9.038	9.586	8.648	17.288	1.392	19.000
Apr	327.233	280.169	10.908	9.434	10.478	8.948	17.056	1.294	17.595
May	377.629	324.015	12.182	10.452	13.559	8.777	22.344	1.424	8.045
Jun	450.367	404.627	15.012	13.488	16.845	10.771	26.728	2.515	12.689
Jul	493.977	463.690	15.935	14.958	19.034	12.106	30.280	1.674	9.999
Aug	456.198	423.322	14.716	13.656	17.242	11.107	26.685	5.048	14.456
Sep	398.632	370.516	13.288	12.351	13.894	10.481	24.604	1.583	22.469
Oct	371.413	342.143	11.981	11.037	13.383	9.828	22.818	2.245	21.401
Nov	332.073	300.525	11.069	10.018	11.134	8.793	20.146	1.984	20.113
Dec	354.110	305.561	11.423	9.857	10.832	8.727	22.332	5.005	38.941
TOTAL	4,520.573	4,031.875							233.493
MIN						8.120		1.294	8.045
MAX					19.034		30.280		38.941
AVG			12.342	11.016					19.458

*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:

- Drinking Water Works Permit # 007-203
- Municipal Drinking Water License # 007-103

Maximum daily flow: 50.000 ML

Maximum flow rate: 50.000 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	8.898	17.8%	9.686	19.4%	22.170	44.3%
Feb	9.010	18.0%	9.923	19.8%	20.652	41.3%
Mar	9.038	18.1%	9.586	19.2%	17.288	34.6%
Apr	9.434	18.9%	10.478	21.0%	17.056	34.1%
May	10.452	20.9%	13.559	27.1%	22.344	44.7%
Jun	13.488	27.0%	16.845	33.7%	26.728	53.5%
Jul	14.958	29.9%	19.034	38.1%	30.280	60.6%
Aug	13.656	27.3%	17.242	34.5%	26.685	53.4%
Sep	12.351	24.7%	13.894	27.8%	24.604	49.2%
Oct	11.037	22.1%	13.383	26.8%	22.818	45.6%
Nov	10.018	20.0%	11.134	22.3%	20.146	40.3%
Dec	9.857	19.7%	10.832	21.7%	22.332	44.7%



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

PORT COLBORNE 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

Drinking Water Works Permit # 007-201
Municipal Drinking Water License # 007-101

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

The Port Colborne 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 Raw (ML)	TOTAL FLOW Treated (ML)	AVERAGE DAY Raw (ML)	AVERAGE DAY Treated (ML)	MAX. DAY Treated (ML)	MIN. DAY Treated (ML)	MAX. FLOW RATE Treated (ML/d)	MIN. FLOW RATE Treated (ML/d)	WASTE SLUDGE (ML)
Jan	213.860	208.780	6.899	6.735	8.130	4.840	27.591	3.897	2.852
Feb	199.550	196.190	7.127	7.024	7.938	6.100	17.128	4.277	1.711
Mar	225.510	219.090	7.275	7.067	8.858	5.420	12.841	3.846	1.932
Apr	206.930	204.240	6.898	6.808	7.900	4.590	12.749	3.682	2.585
May	225.330	218.570	7.269	7.051	9.070	5.170	21.678	3.887	2.851
Jun	228.870	223.440	7.629	7.448	8.625	6.180	16.451	3.703	2.491
Jul	245.660	239.220	7.925	7.717	9.574	5.690	16.431	3.754	2.609
Aug	226.180	221.330	7.296	7.140	9.340	4.690	16.708	3.692	1.640
Sep	204.540	201.240	6.818	6.708	8.110	4.550	12.742	3.897	1.562
Oct	210.440	207.430	6.788	6.691	10.483	4.010	17.764	3.497	1.553
Nov	184.850	178.950	6.162	5.965	6.910	3.300	16.482	3.621	2.306
Dec	190.030	189.080	6.130	6.099	7.730	4.020	12.574	4.133	1.612
TOTAL	2561.750	2507.560							25.704
MIN						3.300		3.497	1.553
MAX					10.483		27.591		25.704
AVG			7.018	6.871					2.142

*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 flow.

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

Flow rates as set in:

- Drinking Water Works Permit # 007-201
- Municipal Drinking Water License # 007-101

Maximum daily flow 36.000 ML

Maximum flow rate 36.000 ML/day

2020	AVERAGE DAY Treated (ML)	% OF RATED CAPACITY	MAX. DAY Treated (ML)	% OF RATED CAPACITY	MAX. FLOW RATE Treated (ML/d)	% OF RATED CAPACITY
Jan	6.735	18.7%	8.130	22.6%	27.591	76.6%
Feb	7.024	19.5%	7.938	22.1%	17.128	47.6%
Mar	7.067	19.6%	8.858	24.6%	12.841	35.7%
Apr	6.808	18.9%	7.900	21.9%	12.749	35.4%
May	7.051	19.6%	9.070	25.2%	21.678	60.2%
Jun	7.448	20.7%	8.625	24.0%	16.451	45.7%
Jul	7.717	21.4%	9.574	26.6%	16.431	45.6%
Aug	7.140	19.8%	9.340	25.9%	16.708	46.4%
Sep	6.708	18.6%	8.110	22.5%	12.742	35.4%
Oct	6.691	18.6%	10.483	29.1%	17.764	49.3%
Nov	5.965	16.6%	6.910	19.2%	16.482	45.8%
Dec	6.099	16.9%	7.730	21.5%	12.574	34.9%



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%



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

WELLAND 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

Drinking Water Works Permit # 007-204
Municipal Drinking Water License # 007-104

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

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.

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

2020	TOTAL FLOW Raw (ML)	TOTAL FLOW Treated (ML)	AVERAGE DAY Raw (ML)	AVERAGE DAY Treated (ML)	MAX. DAY Treated (ML)	MIN. DAY Treated (ML)	MAX. FLOW RATE Treated (ML/d)	MIN. FLOW RATE Treated (ML/d)	WASTE SLUDGE (ML)
Jan	706.650	694.271	22.795	22.422	27.938	16.718	44.937	16.438	24.390
Feb	638.050	624.635	22.796	22.364	26.226	20.346	43.138	25.044	26.272
Mar	693.520	678.670	22.372	21.920	24.269	19.592	43.194	24.131	28.105
Apr	648.780	643.871	21.626	21.489	23.816	19.370	43.500	20.981	18.966
May	729.070	707.881	23.518	22.860	33.272	9.294	48.819	16.994	21.757
Jun	836.560	824.254	27.885	27.507	36.366	21.690	46.388	16.050	31.735
Jul	936.980	933.306	30.225	30.153	35.878	22.976	43.331	14.869	27.105
Aug	927.740	924.148	29.927	29.852	36.248	24.684	55.987	14.464	27.260
Sep	816.530	807.263	27.218	26.940	31.480	22.196	43.400	12.032	29.355
Oct	738.530	735.738	23.824	23.759	27.196	20.788	53.575	16.919	20.927
Nov	722.150	704.035	24.072	23.492	26.630	15.432	46.856	5.188	24.128
Dec	733.580	715.914	23.664	23.119	26.460	20.834	42.769	9.111	25.077
TOTAL	9128.140	8993.984							305.077
MIN						9.294		5.188	18.966
MAX					36.366		55.987		305.077
AVG			24.993	24.656					25.423

*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 flow.

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

Flow rates as set in:

- Drinking Water Works Permit # 007-204
- Municipal Drinking Water License # 007-104

Maximum daily flow 65.000 ML

Maximum flow rate 65.000 ML/day

2020	AVERAGE DAY Treated (ML)	% OF RATED CAPACITY	MAX. DAY Treated (ML)	% OF RATED CAPACITY	MAX. FLOW RATE Treated (ML/d)	% OF RATED CAPACITY
Jan	22.422	34.5%	27.938	43.0%	44.937	69.1%
Feb	22.364	34.4%	26.226	40.3%	43.138	66.4%
Mar	21.920	33.7%	24.269	37.3%	43.194	66.5%
Apr	21.489	33.1%	23.816	36.6%	43.500	66.9%
May	22.860	35.2%	33.272	51.2%	48.819	75.1%
Jun	27.507	42.3%	36.366	55.9%	46.388	71.4%
Jul	30.153	46.4%	35.878	55.2%	43.331	66.7%
Aug	29.852	45.9%	36.248	55.8%	55.987	86.1%
Sep	26.940	41.4%	31.480	48.4%	43.400	66.8%
Oct	23.759	36.6%	27.196	41.8%	53.575	82.4%
Nov	23.492	36.1%	26.630	41.0%	46.856	72.1%
Dec	23.119	35.6%	26.460	40.7%	42.769	65.8%