

Miller Manor Annual Summary 2021

Executive Summary

Schedule 22 of Ontario Regulation 170/03 requires that summary reports are prepared and given to members of council by March 31st of each year. The report must include any requirements of the Act, Regulations, Permits, licenses or orders not met and the actions taken to correct the failure. In addition, a summary of flow rates and quantities compared to the approved capacities are provided to assess the capability of the system to meet existing and planned uses of the system.

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Staffing & Licencing

Name	Position	License
Curtis Whitteker	ORO	Class 2 (65358)
Gerald Whitteker	Operator	Limited Surface Water Subsystem (95112)
Brittany Loucks	Operator in Training	OT113705
Raven Hill	Operator in Training	OT112839
Vince Lauzon	Operator	Class 3(91130)

Inspection Reports

An inspection was done in November 2021 and the following non-compliances were reported:

1. Appropriate records of flows and any capacity exceedances were not made in accordance with the Municipal Drinking Water Licence issued under Part V of the SDWA.
2. The Annual Report did not contain the required information and/or was not prepared by February 28th of the following year.
An annual report was prepared by February 28th but it not contain a section to describe any major expenses incurred during the period covered by the report to install, repair or replace required equipment as required by section Section 11 (6)(e). O. Reg. 170/03.
3. Summary Reports for municipal council were not completed on time, did not include the required content, and/or were not distributed in accordance with the regulatory requirements.
A summary report was prepared by March 31, 2021 but it was not given to the members of municipal council by March 31, 2021 as required by O. Reg. 170/03, Schedule 22, (1)(a). The report was presented to municipal council on June 8, 2021.

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The summary report did not include the quantities of flow rates of raw water flow as required by O.

Reg. 170/03 Schedule 22 Section (3)(1). The summary report did contain the quantities and flow rates

of treated water flow but this was not compared to the rated capacity in the system's MDWL as required

by O. Reg. 170/03, Schedule 22 section (3) (2).

Tabulation of Monitoring Data

Presently there is no equipment installed to capture and record instantaneous flows. However, the UV is designed with a restrictor to limit the maximum flow to 16.5GPM as per the Certificate of Approval. DWWP maximum is 162 m³/Day.

The treated and raw water flow has been calculated based on the following assumptions:

- Softener regeneration requires approximately 60 USG of water per regeneration.
- Softener regenerates every 4 days. This is roughly 91.25 regenerations per year or 7.58 regenerations per month or 15 USG per day.
- 60 USG * 7.58 monthly regenerations equals 454.8 USG of raw water used for regenerating the water softener each month.
- Once per calendar month a sprinkler system flow alarm is tested by opening a raw water faucet and running water onto the ground outside. The water flows through a pipe with a one inch inside diameter. The water pressure in the pipe is set at approximately 52psi. The water travels approximately 14.6 meters and the valve is open for approximately 35 seconds. Therefore the estimated volume of water used is 46 liters (12 USG) per test or 0.4 USG per day.
- To determine the raw water flow we have added the monthly sprinkler volume (15 USG) and the water softener regeneration volume (454.8 USG) to the Treated Water Flow.

Flow Data

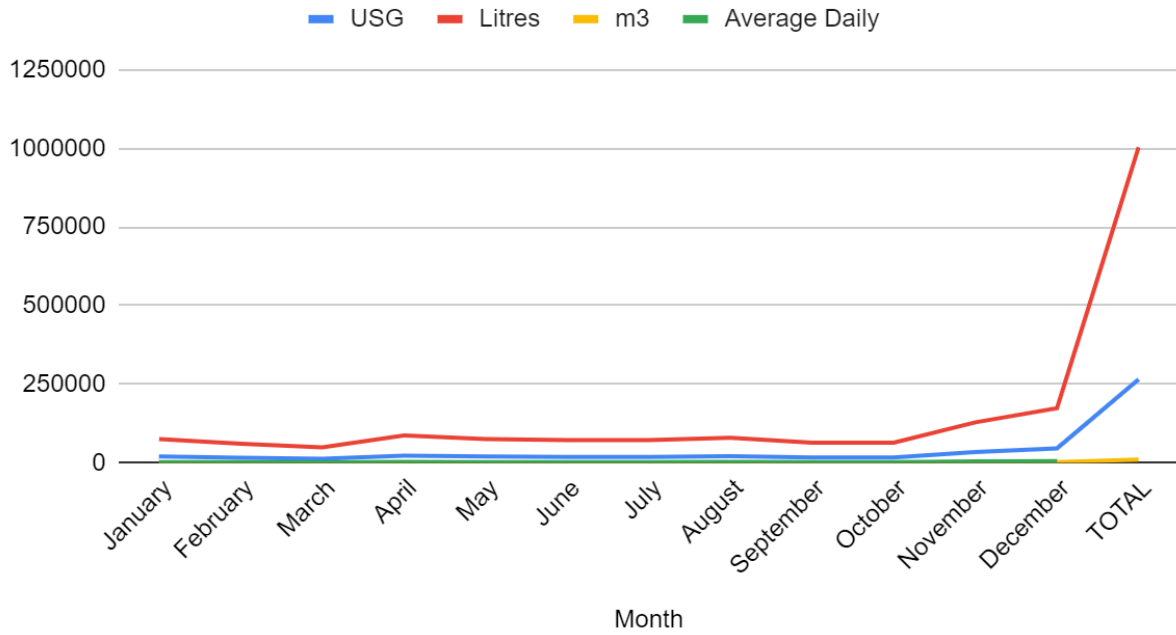
	Raw Water Flow	Treated Water Flow
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Date	# of Days	Current Flow	Previous Flow	Total USG	Total M3	Ave daily m3	Total USG	Total M3	Ave Daily M3	Rated Capacity 162m3 per Day
12/27/2020		836								
1/12/2021	16	842	836	6000	22.710	1.42	6015.4	22.768	1.42	162
1/26/2021	14	856	842	14000	52.990	3.79	14015.4	53.048	3.79	162
2/8/2021	14	863	856	7000	26.495	1.89	7015.4	26.553	1.90	162
2/22/2021	14	872	863	9000	34.065	2.43	9015.4	34.123	2.44	162
3/8/2021	14	880	872	8000	30.280	2.16	8015.4	30.338	2.17	162
3/22/2021	14	885	880	5000	18.925	1.35	5015.4	18.983	1.36	162
4/5/2021	14	897	885	12000	45.420	3.24	12015.4	45.478	3.25	162
4/19/2021	16	908	897	11000	41.635	2.60	11015.4	41.693	2.61	162
5/5/2021	13	919	908	11000	41.635	3.20	11015.4	41.693	3.21	162
5/18/2021	14	928	919	9000	34.065	2.43	9015.4	34.123	2.44	162
6/1/2021	14	939	928	11000	41.635	2.97	11015.4	41.693	2.98	162
6/15/2021	14	948	939	9000	34.065	2.43	9015.4	34.123	2.44	162
6/29/2021	14	958	948	10000	37.850	2.70	10015.4	37.908	2.71	162
7/13/2021	14	963	958	5000	18.925	1.35	5015.4	18.983	1.36	162
7/27/2021	14	977	963	14000	52.990	3.79	14015.4	53.048	3.79	162
8/10/2021	14	987	977	10000	37.850	2.70	10015.4	37.908	2.71	162
8/24/2021	15	998	987	11000	41.635	2.78	11015.4	41.693	2.78	162
9/8/2021	13	1007	998	9000	34.065	2.62	9015.4	34.123	2.62	162
9/21/2021	13	1015	1007	8000	30.280	2.33	8015.4	30.338	2.33	162
10/4/2021	13	1024	1015	9000	34.065	2.62	9015.4	34.123	2.62	162
10/17/2021	17	1033	1024	9000	34.065	2.00	9015.4	34.123	2.01	162
11/3/2021	26	1048	1033	15000	56.775	2.18	15015.4	56.833	2.19	162
11/29/2021	14	1067	1048	19000	71.915	5.14	19015.4	71.973	5.14	162
12/13/2021	16	1077	1067	10000	37.850	2.37	10015.4	37.908	2.37	162
12/29/2021	16	1113	1077	36000	136.260	8.52	36015.4	136.318	8.52	162

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USG, Litres, m3 and Average Daily



Summary of Maintenance

- Replacement of UV lamps
- Replacement of particle filters
- UV sensor verification

Information

N/A.