

DWCo. LTD

Dufferin Water Co. LTD
13 Rose Ridge Lane
Mono On
L9W 5Y3
Phone 519 942 5695 Fax 519 940 3956

09 January 2019

Township of Amaranth
RR #7
Orangeville, ON
L9W 2Z3

Attn: Susan Stone, CAO Clerk Treasurer

Re: Waldemar Heights Water Supply System– Annual Summary Report for 2018

Dear Susan:

Attached is the 2018 Summary Report for the Waldemar Heights Water Supply System. This report was prepared by Dufferin Water Co. Ltd on behalf of the Township of Amaranth in accordance with Schedule 22 of O. Reg 170/03 filed under the Safe Drinking Water Act (SDWA).

The summary report is required to be prepared, not later than March 31 of each year for the preceding calendar year and given to the members of the municipal council; please ensure this distribution.

Also attached to this letter is a copy of the 2018 Annual Report for the Waldemar Heights Water Supply System. This report should be made available to the public at the Municipal office and if possible on the municipal website.

If you have any questions regarding either report please call.

Regards,

Joe Miedema P. Eng.
General Manager

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Waldemar Heights Water Supply System Large Municipal Residential Drinking Water System

Schedule 22 Summary Report

For the Period:

January 01, 2018 to December 31, 2018

**Prepared for the Township of Amaranth
By Dufferin Water Co. Ltd**

Introduction

Schedule 22 of O. Reg 170/03 requires the preparation by the water system owner of a "Summary Report for Municipalities." This requirement only applies to large and small municipal residential systems. The Waldemar Heights Water Supply System is classified as a Large Municipal Residential Drinking Water System.

The Summary Report for the preceding year is to be issued by March 31 of the following year. This report was prepared by Dufferin Water Co. Ltd on behalf of the Township of Amaranth.

Distribution of the Summary Report is the responsibility of the owner. For a municipality that owns the water supply, all members of council are to receive the report. If the water system is owned by a municipal service board established under Section 195 of the Municipal Act, 2001 then all members of that board are to receive the report. Finally, if a water supply provides water to another municipality under contract, then the water supply owner shall, give by March 31 a copy of the Summary Report to the Municipality being supplied.

The contents of the Summary Report for the municipality must include the following:

1. A list of the requirements of the Safe Drinking Water Act and its regulations that the water system failed to meet during the reporting period, including the duration of the failure.
2. A list of the requirements of the water system's permit that the water system failed to meet during the report period, including the duration of the failure.
3. A list of any Orders that the water system failed to meet during the report time frame, including the duration of the failure.
4. For each of the above failures, a description of the measures taken to correct the failure.
5. A summary of the quantities and flow rates of water supplied "including monthly average, maximum daily flows, and daily instantaneous peak flow rates." (*Information is to enable the owner to assess the capability of the water system to meet existing and future demand*).

A statement that captures the comparison of the flow information to the rated capacity and flow rates stated in the water supply's approval.

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Issues of Non-Compliance

The following table lists the requirements of the Act, Regulations, System Approval (s) and any order that the system failed to meet at any time during the reporting period and measures taken to correct each failure:

Drinking Water Legislation	Requirements the system failed to meet	Duration	Corrective Action(s)	Status
No noted issues of non-compliance during last inspection period.				

Assessment of System Flows and Rates of Water Taking

The following table lists the quantities and flow rates of the water supplied during this reporting period, including monthly average and maximum daily flows, daily instantaneous peak flow rates and a comparison to the rated capacity and flow rates specified in the system approval:

Well Number One

Approved Daily Volume: 491 cubic metres

Approved Flow Rate: 341 L/minute

Month	Average Daily Volume (m ³)	Percent Of Approved Volume	Maximum Daily Volume (m ³)	Percent Of Approved Volume
January	37.6	8%	77	16%
February	38.0	8%	72	15%
March	36.2	7%	74	15%
April	34.6	7%	76	15%
May	45.8	9%	149	30%
June	95.9	20%	240	49%
July	92.3	19%	267	54%
August	72.6	15%	280	57%
September	47.9	10%	107	22%
October	33.7	7%	75	15%
November	33.7	7%	77	16%
December	36.8	8%	88	18%

Flow control is in the form of a pressure reducing valve that is equipped to open and close when the well pump is energized. The valve limits the flow of water from the well and prevents the pump from exceeding the permitted flow rates. Instantaneous flow during operation of this well is 312 Litres per minute

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Well Number Two

Approved Daily Volume: 393 cubic metres

Approved Flow Rate: 273 L/minute

Month	Average Daily Volume (m³)	Percent Of Approved Volume	Maximum Daily Volume (m³)	Percent Of Approved Volume
January	0.1	0%	1	0%
February	0.1	0%	1	0%
March	0.2	0%	1	0%
April	0.1	0%	1	0%
May	0.2	0%	1	0%
June	0.1	0%	1	0%
July	0.1	0%	1	0%
August	0.2	0%	1	0%
September	0.2	0%	1	0%
October	0.1	0%	1	0%
November	0.2	0%	2	1%
December	0.1	0%	1	0%

Flow control is in the form of a pressure reducing valve that is equipped to open and close when the well pump is energized. The valve limits the flow of water from the well and prevents the pump from exceeding the permitted flow rates. Instantaneous flow during operation of this well is 235 Litres per minute

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Well Number Three

Approved Daily Volume: 457.92 cubic metres

Approved Flow Rate: 318 litres/minute

Month	Average Daily Volume (m³)	Percent Of Approved Volume	Maximum Daily Volume (m³)	Percent Of Approved Volume
January	27.2	6%	78	17%
February	25.6	6%	73	16%
March	29.6	6%	82	18%
April	31.9	7%	81	18%
May	42.6	9%	175	38%
June	87.7	19%	226	49%
July	73.9	16%	165	36%
August	74.5	16%	273	60%
September	32.3	7%	80	17%
October	38.8	8%	88	19%
November	37.7	8%	73	16%
December	41.3	9%	81	18%

Flow control is in the form of a pressure reducing valve that is equipped to open and close when the well pump is energized. The valve limits the flow of water from the well and prevents the pump from exceeding the permitted flow rates. Instantaneous flow during operation of this well is 305 Litres per minute

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Treated Water to Distribution

Approved Daily Volume: 1342 cubic metres

Approved Flow Rate: 932 litres/minute

Month	Average Daily Volume (m ³)	Percent Of Approved Volume	Maximum Daily Volume (m ³)	Percent Of Approved Volume
January	63.8	5%	80	6%
February	60.5	5%	75	6%
March	62.7	5%	79	6%
April	65.7	5%	87	6%
May	85.4	6%	168	13%
June	176.7	13%	383	29%
July	159.7	12%	286	21%
August	144.6	11%	310	23%
September	80.8	6%	118	9%
October	68.9	5%	94	7%
November	64.6	5%	81	6%
December	71.7	5%	150	11%

Flow control is in the form of a pressure reducing valve located on the discharge side of each pressure pump. These valves limit the flow of treated water and prevents the distribution flow rate from exceeding the permitted flow rates. Average flow rate when pumps are operating is 120 litres per minute.