

DWCo. LTD

Dufferin Water Co. LTD
13 Rose Ridge Lane
RR 5 Orangeville On
L9W 2Z2

Phone 519 942 5695 Fax 519 940 3956

29 February 2010

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

Attn: Susan Stone, CAO

Re: Waldemar Heights Water Supply System – Annual Summary Report for 2009

Dear Susan:

Attached is the 2009 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 2009 Annual Report for the Waldemar Heights Water Supply System. The report was prepared by Dufferin Water Co. Ltd on behalf of the Township of Amaranth and submitted to the Ministry of the Environment (MOE) as required by Section 11 of O. Reg 170/03. This report is required to be submitted to the MOE no later than February 28 of each year.

Section 12 of O. Reg 170/03 requires both the Summary Report and Annual Report to be made available for inspection by any member of the public during normal business hours, without charge. These reports should be made available for inspection at the office of the municipality or at a location that is reasonably convenient to the users of the water system.

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, 2009 to December 31, 2009

**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 Certificate of Approval 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				

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	Peak Flow Rate (L/min)	Percent Of Approved Flow Rate
January	38.5	7.9	111	22.6	77	22.6
February	38.2	7.8	96	19.6	67	19.6
March	41.8	8.5	96	19.6	67	19.6
April	40.3	8.2	101	20.6	70	20.6
May	50.0	10.2	146	29.7	101	29.7
June	71.9	14.7	336	68.4	233	68.4
July	61.1	12.4	181	36.9	126	36.9
August	67.3	13.7	217	44.2	151	44.2
September	63.2	12.9	153	31.2	106	31.2
October	64.6	13.2	114	23.2	79	23.2
November	42.1	8.6	110	22.4	76	22.4
December	44.8	9.1	115	23.4	80	23.4

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.

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Well Number Two

Approved Daily Volume: 393 cubic metres

Approved Flow Rate: 273 L/minute

Month	Average Daily Volume (m ³)	Percent Of Approved Volume	Maximum Daily Volume (m ³)	Percent Of Approved Volume	Peak Flow Rate (L/min)	Percent Of Approved Flow Rate
January	32.8	8.4	91	23.2	63	23.2
February	32.4	8.2	76	19.3	53	19.3
March	26.8	6.8	85	21.6	59	21.6
April	30.1	7.7	80	20.4	56	20.4
May	30.2	7.7	87	22.1	60	22.1
June	29.8	7.6	92	23.4	64	23.4
July	51.5	13.1	183	46.6	127	46.6
August	39.4	10.0	120	30.5	83	30.5
September	37.8	9.6	113	28.8	78	28.8
October	29.8	7.6	109	27.7	76	27.7
November	36.7	9.3	101	25.7	70	25.7
December	38.1	9.7	98	24.9	68	24.9

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Well Number Three

Approved Daily Volume: 457.92 cubic metres

Approved Flow Rate: 318 litres/minute

Month	Average Daily Volume (m ³)	Percent Of Approved Volume	Maximum Daily Volume (m ³)	Percent Of Approved Volume	Peak Flow Rate (L/min)	Percent Of Approved Flow Rate
January	On-Line – Held in Reserve					
February						
March						
April						
May						
June						
July						
August						
September						
October						
November						
December						

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.