



Ontario Clean Water Agency
Agence Ontarienne Des Eaux

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February 17, 2017

Mr. Brad McRoberts
CAO/Clerk
Township of Mapleton
P.O. Box 160
7275 Sideroad 3
Drayton, Ontario
N0G 1PD

Re: Safe Drinking Water Act, O. Reg. 170/03 Schedule 22 Summary Report

Mr. McRoberts,

Attached is the 2016 Summary Report for the **Moorefield Water Supply System**. This report has been completed based on the information we have in our records and in accordance with Schedule 22 of O. Reg. 170/03, under the Safe Drinking Water Act, which requires a Summary Report to be prepared not later than March 31st of each year for the preceding calendar year. This report covers the period of January 1, 2016 to December 31, 2016.

After your review and inclusion of any additional information, this Summary Report must be provided to the members of the municipal council. The report is not intended for distribution to the Ministry of the Environment and Climate Change.

Section 12 of O. Reg. 170/03, requires both the Summary Report and the Annual Report to be made available for inspection by any member of the public during normal business hours, without charge. The 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, as indicated in the Section 11 Annual Report, as required by Section 12 (4) of O.Reg 170/03.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Scott Craggs', with a long horizontal flourish underneath.

Scott Craggs
Senior Operations Manager
West Highlands Hub
Ontario Clean Water Agency

SC/lb

cc: Lisa Benoit, PCT



**Ontario Clean Water Agency
Agence Ontarienne Des Eaux**

MOOREFIELD WATER SUPPLY SYSTEM

Large Municipal Residential Drinking Water System

SCHEDULE 22

SUMMARY REPORT

For the period of

JANUARY 01, 2016 TO DECEMBER 31, 2016

**Prepared by the Ontario Clean Water Agency
For the Township of Mapleton**

SUMMARY

This report is a summary of water quality and quantity information submitted in accordance with schedule 22 of Ontario's Drinking Water System regulation for the reporting period of January 1, 2016 to December 31, 2016 for the Moorefield Water Supply System, located in the Township of Mapleton

The summary includes:

1. Any requirements of the Act and Regulation, Orders or System Approval (s) that the system failed to meet during the reporting period and the measures taken to correct each failure.
2. A summary of the quantities and flow rates of water supplied during the reporting period, including monthly averages and maximum daily flows.
3. A comparison of the average and monthly maximum daily flows to the approved capacity specified in the System Approval.

ISSUES OF NON-COMPLIANCE

There were no issues of non-compliance for the inspection period of August 20, 2015 to June 14, 2016 – an inspection rating of 100.0% was received.

Provide details on the notices submitted in accordance with subsection 18(1) of the Safe Drinking Water Act or section 16-4 of Schedule 16 of O.Reg.170/03 and reported to Spills Action Centre

Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
No Incidents to Report in 2016					

ASSESSMENT OF FLOW RATES AND QUANTITIES OF WATER SUPPLIED

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

Summary of Raw Water Flows – Moorefield Pumphouse

Moorefield Well # 1 & 2 combined

MDWL (Rated Capacity 1555.0 m³/day)

MONTH	Avg. Daily Volume m³	% Of Approved Volume	MAX Daily Volume m³/d	% Of Approved Volume
JANUARY	153.29	9.86	210.93	13.56
FEBRUARY	162.18	10.43	212.08	13.64
MARCH	162.88	10.47	224.43	14.43
APRIL	162.57	10.45	237.28	15.26
MAY	165.11	10.62	255.33	16.42
JUNE	172.38	11.09	269.39	17.32
JULY	160.25	10.31	239.18	15.38
AUGUST	161.10	10.36	237.44	15.27
SEPTEMBER	163.86	10.54	229.02	14.73
OCTOBER	174.47	11.22	317.06	20.39
NOVEMBER	163.87	10.54	233.30	15.00
DECEMBER	187.93	12.09	353.90	22.76

APPENDIX A

Moorefield Drinking Water System

Water taking permitted as per **PTTW # 1401-9KXJW5**

Flow & Flowrates for Well 1 & 2

Location:

RW – Raw Water – Well #1
RW – Raw Water – Well #2

Facility Flow Summary

Drinking-Water System Number: 260069732
 Drinking-Water System Name: MOOREFIELD DRINKING WATER SYSTEM
 Drinking-Water System Owner: Title Holder: Corporation/Company
 Drinking-Water System Category: Large Municipal Residential
 Municipal Drinking Water License: 105-102
 Period being reported: 01/2016 12/2016

Raw Water (Source Name)		Raw Water			
Source Type:		Raw Water 1			
Drinking Water Permit to Take Water No:		Drilled			
		1401-9KXJW5			
Month	Monthly Flow Total (m3/month)	Daily Flow Average (m3/day)	Daily Flow Maximum (m3/day)	Daily Flow Peak Flow Rate (L/min)	Daily Flow Peak Flow Rate (L/sec)
Jan	2204.61	71.12	104.62		10.33
Feb	2221.60	76.61	101.09		13.28
Mar	2318.19	74.78	124.32		10.34
Apr	2249.97	75.00	125.55		10.24
May	2364.46	78.82	133.60		10.25
Jun	2375.78	79.19	189.82		10.25
Jul	2354.75	75.96	133.74		10.30
Aug	2178.77	70.28	130.62		10.36
Sep	2263.47	75.45	127.33		10.39
Oct	2440.24	78.72	213.97		10.33
Nov	2179.09	72.64	131.82		10.77
Dec	2417.84	77.99	157.18		10.53
Total	27568.78				
Avg		75.55			
Max			213.97		13.28
Criteria			1310.00		11.00

* Flow exceedance (l/s) occurred on Feb 24, 2016 due to maintenance on the singer valve for Well 1

Facility Flow Summary

Drinking-Water System Number: 260069732
 Drinking-Water System Name: MOOREFIELD DRINKING WATER SYSTEM
 Drinking-Water System Owner: Title Holder: Corporation/Company
 Drinking-Water System Category: Large Municipal Residential
 Municipal Drinking Water License: 105-102
 Period being reported: 01/2016 12/2016

Raw Water					
Raw Water (Source Name)		Raw Water 2			
Source Type:		Drilled			
Drinking Water Permit to Take Water No:		1401-9KXJW5			
Month	Monthly Flow Total (m3/month)	Daily Flow Average (m3/day)	Daily Flow Maximum (m3/day)	Daily Flow Peak Flow Rate (L/min)	Daily Flow Peak Flow Rate (L/sec)
Jan	2550.50	82.27	107.63		7.12
Feb	2481.53	85.57	110.99		8.45
Mar	2731.23	88.10	162.30		12.79
Apr	2627.12	87.57	175.04		6.75
May	2754.02	91.80	184.70		6.73
Jun	2795.58	93.19	185.63		6.65
Jul	2612.86	87.10	184.88		6.62
Aug	2815.22	90.81	175.55		6.56
Sep	2652.26	88.41	172.83		6.47
Oct	2968.40	95.75	171.76		6.48
Nov	2737.06	94.38	170.37		6.40
Dec	3408.11	109.94	283.15		6.41
Total	33133.88				
Avg		91.24			
Max			283.15		12.79
Criteria			1310.00		7.00

* Flow exceedances (l/s) occurred on Jan 22, Feb 24 and Mar 4, 2016 due to singer valve and PLC maintenance for Well 2