

# Appendix I

## City of Ottawa Drinking Water Systems 2023

### Regulatory requirements and compliance with Safe Drinking Water Act (2002)

**Drinking water systems:** Lemieux Island WPP; Britannia WPP and Central Distribution System; Carp Well System; Munster Well System; Kings Park Well System; Richmond West Well System; Shadow Ridge Well System; Vars Well System

**Source Water:** Ottawa River & various groundwater sources for municipal well systems

**Date of report:** March 31<sup>st</sup>, 2024

Description	Legislation	Regulatory Requirement	Britannia WPP	Lemieux Island WPP	Carp Well	Munster Well	Kings Park Well	Richmond West Well	Shadow Ridge Well	Vars Well
<b>Water Treatment</b>										
Raw (river/well) water taking	PTTW	Raw water flow must be <PTTW	✓	✓	✓	✓	✓	✓	✓	✓
Raw (river/well) water taking	PTTW	Daily raw water taking flow rates for previous year must be submitted to MECP by March 31	✓	✓	✓	✓	✓	✓	✓	✓
Treated water production	MDWL Sch.(C) 1.0	Treated water flow must be <MDWL	✓	✓	✓	✓	✓	✓	✓	✓
Treatment barriers	O.Reg.170/03 Sch.1.4	Treatment must include chemically assisted filtration for surface water systems	✓	✓	n/a	n/a	n/a	n/a	n/a	n/a











Description	Legislation	Regulatory Requirement	Britannia WPP	Lemieux Island WPP	Carp Well	Munster Well	Kings Park Well	Richmond West Well	Shadow Ridge Well	Vars Well
Alterations to the system	DWWP Sch.B 4.0	Any alteration of the treatment system must be documented in Forms 2/3 – Record of Minor Modification, retained on-site for 10 years	✓	✓	✓	✓	✓	✓	✓	✓
Alterations to the system	DWWP Sch.B 4.0	Any alteration of the water mains must be documented in Form 1 – Record of Water Mains Authorized as a Future Alteration, retained on-site for 10 years	✓	✓	✓	✓	✓	✓	✓	✓

**Notes for items of non-compliance:**

- 1. 2023 MECP Inspection Report is pending. No well protection issues were noted when the wells were inspected by MECP during the annual inspection completed in Q1 2024. No issues were noted in the 02/09/2023 inspection report.**
- 2. Required amount of monthly Distribution samples not taken in two well systems: Distribution samples, at two facilities, were only sampled once a week instead of twice, for the months of August and November, for the Munster and Carp systems. This resulted in only 8 Distribution samples being taken instead of the 9 or 10 required by regulation based on population of these systems. Both communities experienced recent population growth which required more frequent sampling not communicated effectively to field staff. These systems are monitored 24/7 by online analyzers and the relevant sampling schedule has been updated and reiterated to operations staff.**

**Regulations, Licenses, & Permits:**

- MDWL – Municipal Drinking Water License
- DWWP – Drinking Water Works Permit
- PTTW – Permit To Take Water
- O.Reg.170/03 – Drinking Water Systems Regulation
- O.Reg.169/03 – Ontario Drinking Water Quality Standards
- O.Reg.248/03 – Drinking Water Testing Services
- O.Reg.128/04 – Certification of Drinking Water Systems Operators
- O.Reg.188/07 – Licensing of Municipal Drinking Water systems
- O.Reg.170/03 (Appendix) – Procedure for Disinfection of Drinking Water in Ontario

O.Reg.170/03 (Sch.15.1) – Community Lead Testing Program  
AWWA – American Water Works Association

**Glossary:**

NOTE: water quality testing refers to treated water samples unless otherwise stated

ML/d = mega-Litres per day = million Litres per day

WPP = Water Purification Plant

TC = Total Coliform bacteria, units of (cfu/100mL)

EC = E.coli bacteria, units of (cfu/100mL)

HPC = Heterotrophic Plate Count bacteria, units of (cfu/mL)

PS = Pump Station

MAC = maximum acceptable concentration for Ontario Drinking Water Standards

MOH = Medical Officer of Health

MECP = Ministry of Environment and Climate Change

n/a=not applicable for that system

\*regulatory relief provided by Ministry during COVID19 for in-home testing of lead in tap water