

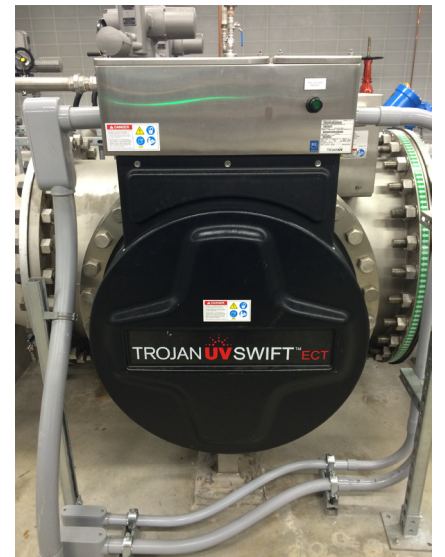
## RMOW- MIDDLETON WATER TREATMENT PLANT ASSET INVENTORY & CONDITION ASSESSMENT

### Overview

The Region of Waterloo, Water Services Division, hired C3 Water Inc. to facilitate a full multi-disciplined asset inventory and condition assessment of the Middleton Water Treatment Plant. The plant is located on Middleton Street in Cambridge. The plant is the City's largest water supply consisting of five (5) groundwater wells, a well pump to waste facility, a UV/hydrogen peroxide advanced oxidation treatment process, in-ground storage with sodium hypochlorite for primary and secondary disinfection, and a high lift pumping station. The plant has gone through numerous expansions since first being commissioned in the 1890's. Much of the infrastructure from the originally spring collector fed water supply remains intact on the site on the site. The latest upgrade was completed to address rising trichloroethylene (TCE) concentrations and microbiological concerns related to the impact of surface water on the supply wells.

C3 Water Project Objectives and deliverables include:

1. Project initiation meeting and background investigations.
2. Multi-disciplinary site investigation to collect an asset inventory for the Region's asset management tool and to complete a condition assessment.
3. Follow-up workshops to review the condition findings, review potential work order types, and discuss potential upgrade projects required to address operational or maintenance deficiencies.
4. Delivery of a final condition assessment report including a 10-year capital improvement plan and cash flow.



Delivering Value Through the Water Cycle: Source to Tap, Tap to Source™

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