New Dundee Water Supply – Iron and Manganese Treatment Upgrades

Schedule “C” Class Environmental Assessment

Virtual Public Consultation Centre #1
Welcome!

The Goals of this Virtual Public Consultation Centre:

- Introduce the project and the reasons why it is being done
- Provide background information on the New Dundee Water Supply System
- Provide an overview of the process that will be followed for the project
- Answer any questions you may have and provide an opportunity to get involved in the project

Comments received during this study will be used to identify a recommended approach for the New Dundee Water Supply iron and manganese treatment
The New Dundee drinking water supply system

New Dundee Water supply facility

The New Dundee water supply system supplies drinking water to the community of New Dundee and is one of the Region of Waterloo’s Rural Water Supply systems. The facility is operated by the Region, but the watermains are operated by the Township of Wilmot.
The New Dundee Water Supply facility is located at 156 Alderview Drive in the Township of Wilmot, in the Community of New Dundee. The facility consists of two well-heads, one wellhouse, two reservoirs, an electrical room, and a portable generator.
New Dundee water supply system iron and manganese treatment upgrades project overview

**What are we doing?**
Planning upgrades to the New Dundee Water Supply System to provide treatment for iron and manganese. This study will look at the best way to complete these upgrades.

**Why are we doing it?**
Lower aesthetic drinking water objectives for manganese are expected in the near future. The New Dundee Water Supply System has been identified as requiring upgrades to meet these future aesthetic objectives. We are taking steps now to ensure we are ready to meet these objectives.

**What does it mean to you?**
These upgrades will require a new building for the treatment equipment. It is expected additional property at the Region’s existing water supply site or a new site will be required. There is no change in the amount of water being taken from the New Dundee Water Supply wells.

Aesthetic objectives are targets we meet when treating water for taste, odour, and colour.
Iron and manganese in drinking water

Iron and Manganese are naturally occurring metals commonly found in soil. They are often present in drinking water where groundwater is the source.

Iron and Manganese may have aesthetic impacts such as staining of laundry and fixtures, undesirable taste, and discolouration.
Changes in drinking water standards

The Province of Ontario regulates standards for drinking water to protect health and provides aesthetic objectives to produce drinking water that is pleasant to consumers.

The Province is considering a reduction to the manganese aesthetic objective in drinking water from 0.05 milligrams per litre (mg/L) to 0.02 mg/L based on guidance from Health Canada.

The New Dundee Water Supply System has been identified by the Region of Waterloo as requiring upgrades to meet future aesthetic objectives.
Overview of the Municipal Class Environmental Assessment planning process

This study is being completed as a Schedule C Class Environmental Assessment. A Class Environmental Assessment is a decision making process that all municipalities in Ontario follow for building new infrastructure. The process will allow you to follow what is planned and provide opportunities for you to ask questions and provide input.

We Are Here

Virtual Public Consultation Centre #1

Phase 1
Identify Problem and/or Opportunity

Phase 2
Develop and Evaluate Solutions and Identify Preferred Solution

Phase 3
Develop and Evaluate Design Concepts for Preferred Solution and Identify Preferred Design

Phase 4
Environmental Study Report (ESR)
30 Day Public Review

Phase 5
Implementation (Design and Construction)
Project study area

New Dundee Water Supply System, 156 Alderview Dr, Wilmot, ON
Additional background studies

As part of the Class EA process natural, archaeological, and cultural heritage sensitivities in the Study Area need to be considered when identifying a recommended approach for the iron and manganese treatment. The Barn Swallow pictured below is an example of a natural sensitivity because of its classification as a threatened species. These studies will be undertaken as part of this Class EA.

A photo of a Barn Swallow, a type of threatened bird species found in Ontario.
Next steps

**Region of Waterloo Council**

- Region of Waterloo Council will provide approval to file the Environmental Study Report for a 30-day review period for public comment.

**Public Consultation Centre #1**
- Introduce the project
- Develop and evaluate alternatives to meet the New Dundee Water Supply System’s needs including treatment approach and key site requirements

**Identify Preferred Alternative**
- Identify the preferred alternative based on the evaluation process (the preferred alternative is the option that is considered the best overall solution)

**Public Consultation Centre #2**
- Obtain input on the preferred treatment approach
- Develop and evaluate the design of the preferred alternative including the facility location and site considerations

**Public Consultation Centre #3**
- Obtain input on the facility location and size

**Reporting**
- Prepare the Environmental Study Report to document project information and the decision-making process

An opportunity for the public to provide input
Thank you for your participation!

Get engaged!
We are still at the beginning of the New Dundee Water Supply System Iron and Manganese Treatment Upgrades Environmental Assessment. Do you have questions, comments, or want to stay up to date?

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More information, including copies of project notices and Public Consultation Centre materials like a transcript of this virtual presentation can be found at: https://www.regionofwaterloo.ca/waterprojects