Shingletown Wells Iron and Manganese Treatment Upgrades

Schedule “C” Class Environmental Assessment

Public Consultation Centre #1

Wednesday, October 23, 2019 - Time: 5:00pm – 7:00pm

Location: Wilmot Recreation Complex, Wayne Roth Room
1291 Nafziger Rd, Baden

Please Sign In
Welcome!

Goals of this Public Consultation Centre

- Introduce the project and the reasons why it is being done
- Provide background information on the Shingletown Wells
- 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 Shingletown Wells iron and manganese treatment
Shingletown Wells Iron and Manganese Treatment Upgrades Project Overview

What are we doing?
Planning upgrades to the Shingletown Wells to provide treatment for iron and manganese. This study will look at the best way to complete these upgrades.

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 Shingletown Wells.

Why are we doing it
Lower aesthetic drinking water objectives for manganese are expected in the near future. The Shingletown Wells have 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.

Aesthetic objectives are parameters that may impact taste, odour, and colour of water.
Shingletown Wells Facility

The Shingletown Wells (named Wells K50, K51 and K52) are located at 2324 Bleams Road in the Township of Wilmot.

The facility consists of two wellhouses, a chemical room and a diesel generator building.
The Shingletown Wells supply drinking water to the Region’s Integrated Urban Water System (which includes Shingletown) and the Baden and New Hamburg water system.
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 discoloration.
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 Province of Ontario regulates standards for drinking water to protect health and provides aesthetic objectives for iron and manganese to produce drinking water that is pleasant to consumers.

The Shingletown Wells have been identified as requiring upgrades to meet future aesthetic objectives.
Overview of the Municipal Class Environmental Assessment Planning Process

We Are Here

Public Consultation Center #1
Public Consultation Center #2
Public Consultation Center #3

Phase 1
Identify Problem and/or Opportunity (see next board)

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)

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.
Iron and Manganese treatment upgrades are needed for the Shingletown Wells to be ready for expected changes to the Province of Ontario's drinking water objectives. This study is being conducted to identify the recommended upgrades at the Shingletown Wells to:

- Provide treatment to consistently meet a reduced aesthetic objective of 0.02 mg/L for manganese
- Update existing infrastructure that needs to be replaced
- Continue to provide safe and reliable drinking water
Project Study Area
An environmental study will be completed as part of this project to develop and evaluate alternatives.
Archaeological Potential in the Study Area and Cultural Heritage Areas

An archaeological and cultural heritage assessment will be completed as part of this project to develop and evaluate alternatives.
## Next Steps

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<thead>
<tr>
<th>Year</th>
<th>Activity</th>
<th>Description</th>
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<tbody>
<tr>
<td>2019</td>
<td>Review Background Information</td>
<td>Collect data, review existing conditions and identify project constraints and opportunities</td>
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<tr>
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<td>Public Consultation Centre #1</td>
<td>Introduce the project</td>
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<tr>
<td></td>
<td>Develop and Evaluate Alternatives</td>
<td>Develop and evaluate alternatives to meet the Shingletown Wells needs including treatment approach and key site requirements</td>
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<td>Identify Preferred Alternative</td>
<td>Identify the preferred alternative based on the evaluation process (the preferred alternative is the option that is considered the best overall solution)</td>
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<td>Public Consultation Centre #2</td>
<td>Obtain input on the preferred treatment approach</td>
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<td>Develop and Evaluate Alternative Design Concepts</td>
<td>Develop and evaluate the design of the preferred alternative including the facility location and site considerations</td>
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<td>Public Consultation Centre #3</td>
<td>Obtain input on the facility location and size</td>
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<tr>
<td>2020</td>
<td>Reporting</td>
<td>Prepare the Environmental Study Report to document project information and the decision making process</td>
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**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.**
Thank You for Your Participation!

Get engaged!
We are still at the beginning of the Shingletown Wells 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 can be found at: https://www.regionofwaterloo.ca/waterprojects