
Village of Limoges: Potable Water and Wastewater Systems Master Plan

Background

Current water and wastewater systems in the Village of Limoges are at capacity and need to be expanded to support future designated growth areas. In order to address this, the Nation Municipality is undertaking a Master Planning Study in accordance with the Municipal Class EA process.

At a Public Meeting held on May 17, 2011 the following information was presented.

- The preliminary preferred water servicing solutions carried forward included:
 - New groundwater source
 - Piped water from a neighbouring municipality
- The preliminary preferred wastewater servicing solutions carried forward included:
 - New stabilization ponds/lagoons
 - New mechanical treatment plant with storage lagoons

Key issues identified by the public included:

- Costs / cost allocation
- Water quantity
- Water quality
- Servicing for existing developments

Project Update

Since the Public Meeting, the Study Team has responded to the issues raised at the Meeting and has been working with the Ministry of the Environment (MOE) and the South Nation Conservation Authority (SNCA).

The following additional investigations have been undertaken and are currently undergoing review with the MOE and SNCA.

Water Supply

A hydrogeological investigation was conducted to determine if the Vars-Winchester esker could be used for a potential communal water supply. The investigation included the installation of a test well and analysis of the water quality and quantity. The report concluded that two to four additional wells within the esker could meet the ultimate demand (50-100 L/s).

Discussions with neighbouring municipalities regarding supplying water to Limoges reached the following conclusions:

- Former Marionville Water Treatment Plant - Insufficient capacity, operating costs, age / condition of infrastructure
- Cheney (City of Clarence-Rockland) - Cost prohibitive
- City of Ottawa - Expensive and not easily phased
- Township of Russell (City of Ottawa supply) - Reduces growth capacity for the Township of Russell

The Study Team identified a new groundwater source as the preliminary preferred alternative design.

Wastewater System

Further investigations have been undertaken to assess the capacity of the Castor River to receive effluent from an expanded lagoon system and/or mechanical treatment plant. This included an assessment of existing water quality and quantity in the River as well as requirements for source drinking water protection. The results indicate that the Castor River can accept discharge from a mechanical plant, however, during periods of low flow in the river temporary storage, in the form of lagoon cells, would be required.

The expansion of the lagoon treatment system, even if technically feasible, could require up to 1.7 million cubic metres of storage on a 100 hectare site and constrain development on an adjoining 140 hectares to provide a buffer zone; the existing lagoons occupy about 20 hectares. Land acquisition costs and concerns over technical feasibility have ruled out this option for long-term future growth.

The Study Team is currently completing additional analyses in response to MOE requests in support of identifying a new mechanical plant as the preliminary preferred alternative design. In addition, discussions are underway with the MOE and SNCA regarding potential operational modifications to the current lagoon system to meet the immediate and short term growth needs for the Village.

Next Steps

Following the completion of the additional analyses and MOE and SNCA reviews, we will be holding a second Public Meeting to present the preliminary preferred alternative designs to the public. This is anticipated to occur later this spring, to be followed by the completion of the Master Plan report. The Master Plan will be then made available for public review in accordance with the Municipal Class EA process.

We look forward to your continuing involvement in this process. If you have any questions or require further information prior to the Public Meeting please contact:

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