



Source Protection Annual Progress Report

I. Introduction

This annual progress report outlines the progress made in implementing our Source Protection Plan for the Lakehead Source Protection Area, as required by the Clean Water Act and regulations.

This is the seventh Annual Progress Report completed by the Lakehead Source Protection Authority covering the period of January 1, 2021 to December 31, 2021.

See Map M-1 at end of report

II. A message from your local Source Protection Committee

P : Progressing Well/On Target – The majority of the source protection plan policies have been implemented and/or are progressing.

All policies as outlined in the Lakehead SPP have been implemented by the respective Implementing Bodies. Circulation of all Official Plan and Zoning By-law applications within WHPA-A are made to the SPA. In 2021, no Official Plan and Zoning By-law applications were made in WHPA-A.

All implementing bodies have met the requirements of the Plan during the reporting period.

III. Our Watershed

To learn more, please read our assessment report(s) and source protection plan(s)

The Lakehead Source Protection Plan applies within the Lakehead Source Protection Area, which is 11,526 square kilometres and covers the area of land where the flow of water contained within the secondary watershed would eventually pass through the Lakehead Region Conservation Authority (LRCA) area of jurisdiction and reach Lake Superior. The LRCA area of jurisdiction, covers approximately 2,600 square kilometres and is defined by the municipal boundaries of its eight Member Municipalities including: City of Thunder Bay, Municipalities of Oliver Paipoonge, Shuniah and Neebing and the Townships of O'Connor, Conmee, Dorion and Gillies. The remainder of the Lakehead Source Protection Area is made up of Unorganized Townships and unsurveyed territory.

Within the Lakehead Source Protection Area, there are only two sources of Municipal drinking water: Bare Point Water Treatment Facility providing drinking water to the City of Thunder Bay, and the Rosslyn Village Drinking Water Facility, which provides drinking water to 31 homes within Rosslyn Village. The Bare Point Water Treatment is a Great Lake (Lake Superior) surface water system, while the Rosslyn Village Drinking Water Facility is a groundwater system. The remaining residents within the watershed obtain their drinking water from private wells or lake intakes.

IV. At a Glance: Progress on Source Protection Plan Implementation

1. Source Protection Plan Policies

P : Progressing Well/On Target

All of the policies (100%) that address significant drinking water threats are implemented in accordance with the timelines set out in our Source Protection Plan.

2. Municipal Progress: Addressing Risks on the Ground

Two municipalities in the Lakehead Source Protection Area have municipal drinking water systems. The City of Thunder Bay Great Lakes intake does not have any identified significant drinking water threats. The Rosslyn Village groundwater drinking water system has significant drinking water threats identified within the 100 metre radius well-head protection area (WHPA-A), most notably related to existing private septic systems.

P : Progressing Well/On Target - The Municipality of Oliver Paipoonge is the only municipality in the Lakehead Source Protection Area to have identified significant drinking water threats and includes policies to address private septic systems by requiring inspections every five years by the Thunder Bay District Health Unit.

The Municipality of Oliver Paipoonge has prepared a Salt Management Plan. The Salt Management Plan ensures that no salt or snow is stored in WHPA-A and that no salt is applied in WHPA-A.

In 2021, no Official Plan or Zoning By-law amendment applications were submitted to the Municipality of Oliver Paipoonge. All Official Plan and Zoning By-law applications within WHPA-A are circulated to the SPA, as well as the completion of the annual report to the SPA.

Actions completed by the City of Thunder Bay over the reporting period included placing three buoys marking the anchorage boundary in proximity to the intake during the ice free period.

3. Septic Inspections

P : Progressing Well/On Target

100% of on-site sewage systems have been inspected in accordance with the Ontario Building Code. A total of 25 sewage systems in the Source Protection Area required inspecting; 13 inspections were carried out in 2014 and 2015, with the remaining 12 inspections completed in 2016.

The first seven sewage treatment systems that were inspected in the fall of 2014 were re-inspected in 2019. Six sewage treatment systems that were inspected in the fall of 2015 were re-inspected in 2020. The remaining twelve systems were inspected in 2021.

Inspection results found that all of the systems are functioning as designed with no identified issues.

4. Risk Management Plans

Not applicable to our source protection area.

5. Provincial Progress: Addressing Risks on the Ground

Not applicable to our source protection area.

6. Source Protection Awareness and Change in Behaviour

Not applicable.

7. Source Protection Plan Policies: Summary of Delays

Not applicable to our source protection area.

8. Source Water Quality: Monitoring and Actions

In our source protection area, no issues have been identified in our local science-based assessment report(s) regarding the quality of the source(s) of municipal drinking water.

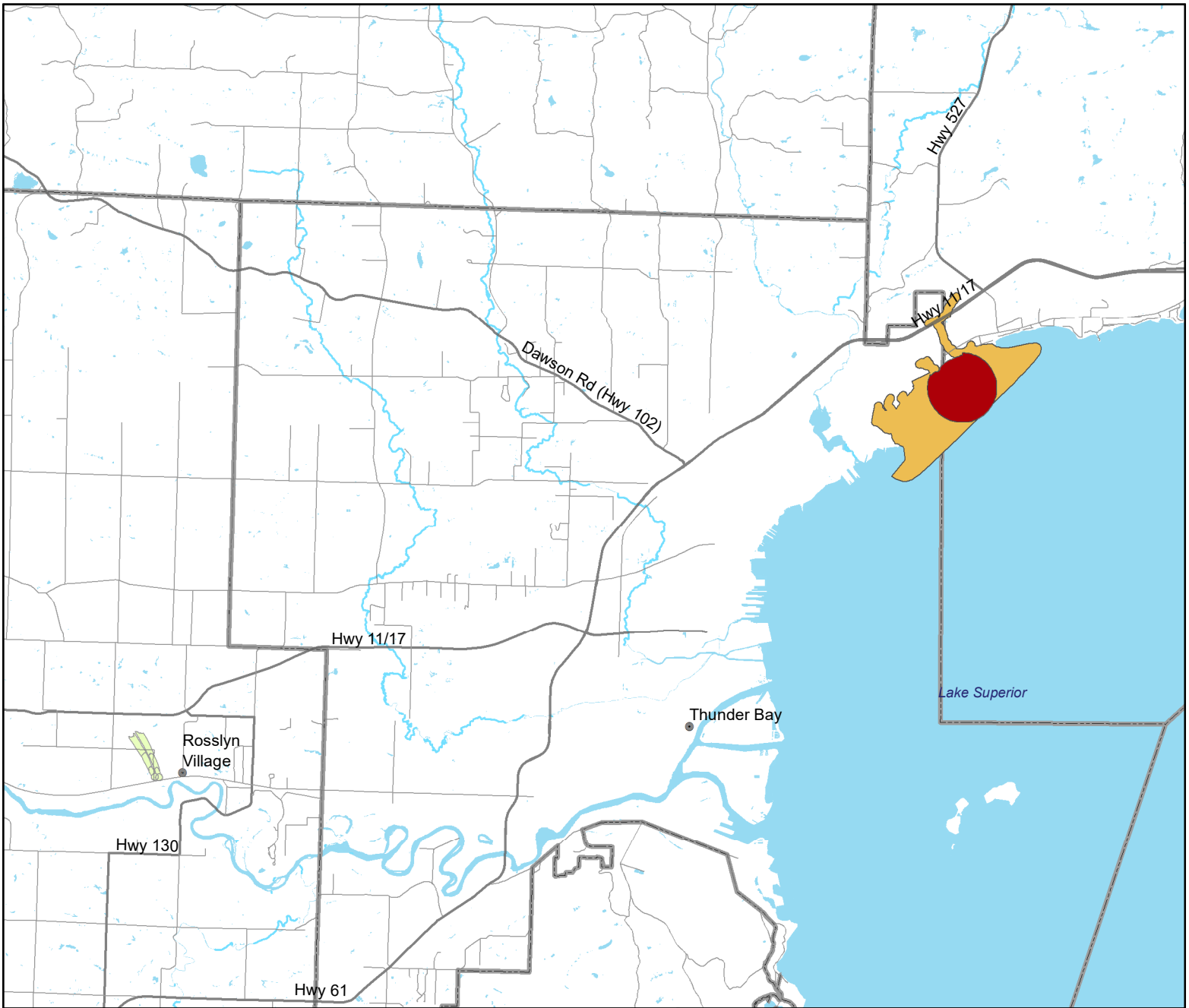
9. Science-based Assessment Reports: Work Plans

No work plans were required to be implemented for our assessment report.

10. More from the Watershed

to learn more visit our website:

<https://lakeheadca.com/watershed/source-water-protect>



**Map M-1
Lakehead Source
Protection Area**

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Base data supplied, under licence,
by members of the
Ontario Geospatial Data
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