



Minutes of the First Regular Meeting of the Lakehead Source Protection Authority (SPA) held on Thursday, April 24, 2024, at the Lakehead Region Conservation Authority. The Chair called the Meeting to order at 5:35 p.m.

**Present:** Donna Blunt, Chair  
Grant Arnold  
Robert Beatty  
Rudy Buitenhuis  
Dan Calvert  
Sheelagh Hendrick  
Brian Kurikka

**Regrets:** Albert Aiello  
Trevor Giertuga  
Greg Johnson  
Jim Vezina

**Also**

**Present:** Tammy Cook, Chief Administrative Officer  
Melissa Hughson, Watershed Manager  
Ryan Mackett, Communications Manager  
Melanie O'Riley, Administrative Clerk/Receptionist, Recorder of Minutes

**1. ADOPTION OF AGENDA**

Resolution #1/24

Moved by Robert Beatty, Seconded by Rudy Buitenhuis

***"THAT: the Agenda is adopted." CARRIED.***

**2. DISCLOSURE OF INTEREST**

None.

### **3. MINUTES OF PREVIOUS MEETING**

Resolution #2/24

Moved by Robert Beatty, Seconded by Brian Kurikka

*“THAT: the Minutes of the Lakehead Source Protection Authority First Regular Meeting held on Thursday April 20, 2023, are adopted as published.” CARRIED.*

### **4. SOURCE PROTECTION IMPLEMENTATION**

#### **4.1 Ninth Annual Lakehead Source Protection Plan Report**

Members reviewed and discussed the Ninth Lakehead Source Protection Plan Annual Report, the MECP Lakehead Source Protection Annual Progress Report, the MECP Source Protection 2023 Supplemental Form, and the 2023 Policy Implementation Status for the reporting period of January 1, 2023, to December 31, 2023.

It was noted that the Source Protection Committee was provided a draft copy of the documents at their March 11, 2024, Source Protection Committee Meeting and their comments were incorporated into the final report.

Resolution #3/24

Moved by Robert Beatty, Seconded by Rudy Buitenhuis

*“THAT: the Lakehead Source Protection Plan Annual Report, the MECP Lakehead Source Protection Annual Progress Report, the MECP Source Protection 2023 Supplemental Form, and 2023 Policy Implementation Status for the reporting period of January 1, 2023 to December 31, 2023 are adopted **AND FURTHER THAT** the MECP Lakehead Source Protection Annual Progress Report and the MECP Source Protection 2023 Supplemental Form and 2023 Policy Implementation Status are submitted to the MECP Director **AND FURTHER THAT** the reports are posted to the Source Protection Website.” CARRIED.*

#### **4.2 Source Protection Committee Procedural Manual**

Members reviewed and discussed the Lakehead Source Protection Committee Procedural Manual.

Resolution #4/24

Moved by Dan Calvert, Seconded by Sheelagh Hendrick

*“THAT: the Drinking Water Source Protection Lakehead Source Protection Committee Procedural Manual, Version 3.0 is adopted **AND FURTHER THAT** the Drinking Water Source Protection Lakehead Source Protection Committee Procedural Manual, Version 3.0 is distributed to the Source Protection Committee Members.”*

5. **NEW BUSINESS**

Members were advised that the Section 36 Workplan was submitted and accepted by the Ministry of the Environment, Conservation and Parks.

6. **NEXT MEETING**

April 2025 (exact date and time to be determined)

7. **ADJOURNMENT**

Resolution #5/23

Moved by Sheelagh Hendrick, Seconded by Dan Calvert

***“THAT: the time being 5:45 p.m. AND FURTHER THAT there being no further business THAT we adjourn.” CARRIED.***

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Chair

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Chief Administrative Officer

<b>PROGRAM AREA</b>	SOURCE WATER PROTECTION	<b>REPORT NO.</b>	SWP-01-2025
<b>DATE PREPARED</b>	April 16, 2025	<b>FILE NO.</b>	
<b>MEETING DATE</b>	April 30, 2025		
<b>SUBJECT</b>	9 <sup>th</sup> Annual Lakehead Source Protection Plan Report		

**RECOMMENDATION**

Suggested Resolution

*“THAT: the Lakehead Source Protection Plan Annual Report, the MECP Lakehead Source Protection Annual Progress Report, the MECP Source Protection 2024 Supplemental Form, and 2024 Policy Implementation Status for the reporting period of January 1, 2024 to December 31, 2024 are adopted **AND FURTHER THAT** the MECP Lakehead Source Protection Annual Progress Report and the MECP Source Protection 2024 Supplemental Form and 2024 Policy Implementation Status are submitted to the MECP Director **AND FURTHER THAT** the reports are posted to the Source Protection Website.”*

**LINK TO STRATEGIC PLAN (2023-2027)**

Conserve and Sustain

- *Collaborate and partner with agencies and community organizations to take action in the protection of natural habitats and ecosystems, share decision-making, and address emerging issues that impact the health and sustainability of the Lakehead watershed.*

**EXECUTIVE SUMMARY**

As a requirement under the *Clean Water Act, 2006*, Source Protection Authorities (SPAs) are required to provide an annual progress report to the Director of the Ministry of the Environment, Conservation and Parks (MECP) by May 1<sup>st</sup> of every given reporting year.

The Tenth Annual Progress Report has been completed for the period of January 1, 2024 to December 31, 2024 for the Lakehead Source Protection Area and is being presented to the SPA for approval prior to submission to the MECP. The report concludes that all policies within the Source Protection Plan have been implemented by the respective implementing bodies during the reporting period.

**DISCUSSION**

As a requirement under the *Clean Water Act, 2006*, Source Protection Authorities (SPAs) are required to provide an annual progress report to the Director of the Ministry of the Environment, Conservation and Parks (MECP) by May 1<sup>st</sup> of every given reporting year. The report must also

be provided to the Source Protection Committee (SPC) at least 30 days prior to submitting to the Director and be provided to the public as soon as reasonably possible after submission to the Director. This report represents the Tenth Annual Progress Report prepared by the Lakehead SPA, covering the period of January 1, 2024, to December 31, 2024.

As required, annual reporting was received from the implementing bodies, (Municipality of Oliver Paipoonge and the Thunder Bay District Health Unit (TBDHU)) by the deadline (February 1, 2024) (Attachments 1 and 2).

Actions completed by the Municipality of Oliver Paipoonge over the reporting period included: completion of the annual report to the SPA. There were no Official Plan and Zoning By-law amendment applications within WHPA-A in 2024.

It is noted that the Rosslyn Village Drinking Water system continues to be on a Drinking Water Advisory due to slightly elevated levels of arsenic being present. The drinking water system consists of a North well and South well that provide water to 32 users. Slightly elevated levels of arsenic were detected in the North well in the fall of 2022 and the well was subsequently taken offline and water was being sourced solely from the South well. In March of 2023, arsenic above 0.01 mg/L was detected in the South well water; the Thunder Bay District Health Unit issued a Drinking Water Advisory to advise residents not to consume the water. The arsenic source is naturally occurring due to the geology of the area.

The Municipality of Oliver Paipoonge is in the process of installing an arsenic treatment system and is working with the Ontario Clean Water Agency as well as the Walkerton Clean Water Centre to resolve the arsenic issue. It is noted that the Ontario Drinking Water Standard (ODWS) for arsenic changed from 0.025 mg/L to 0.010 mg/L (*this change happened on January 1, 2018*).

Future policy actions required by the Municipality of Oliver Paipoonge include: continuing to circulate all Official Plan and Zoning by-law *Planning Act* applications within WHPA-A to the SPA; continuing to prohibit prohibited land uses in WHPA-A; continue to locate salt and snow storage outside of WHPA-A; continue to minimize salt application in WHPA-A; continue to have the fact sheets related to DNAPLs and plane de-icer available for distribution; and prepare and submit annual reports to the SPA by February 1<sup>st</sup> of every reporting year.

Actions completed by the TBDHU over the reporting period included: completion of the annual report to the SPA. The initial required septic system inspections were completed by TBDHU as of November 2016 and were reinspected as required (i.e., within 5 years) in 2019, 2020 and 2021. The 5-year cycle of re-inspections was initiated in 2024 with 13 septic systems inspected. In early 2024, TBDHU identified three Advanced Treatment Septic systems to be out of compliance with maintenance requirements for Advanced Sewage Treatment systems as outlined in Section 8.9.2 of the Ontario Building Code. By the end of 2024, two of these systems are now in compliance, and confirmation of the maintenance status of one additional Advanced Sewage Treatment system remains to be determined through consultation with maintenance providers and the system owner (follow up consultation is planned for 2025). Currently there is no evidence of sewage system failure within WHPA-A. Additional septic inspections will be undertaken in 2025

(part of the 5-year cycle) and follow-up inspections for Advanced Treatment Systems will be completed where required.

Future policy actions required by the TBDHU include: re-inspect all septic systems within WHPA-A every five years, (re-inspection cycle was initiated in 2024), and prepare and submit annual reports to the SPA by February 1<sup>st</sup> of every reporting year.

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.

Future policy actions recommended to be completed by the City of Thunder Bay include: annually place three buoys marking the anchorage boundary in proximity of the intake; provide the SPA copies of any updates to the Spill Prevention and Contingency Plan and a summary of any actions taken to protect the Bare Point Intakes, as well as providing updates to the Standard Operating Procedure related to monitoring and reporting of blue-green algae blooms.

For the reporting period of January 1, 2024 to December 31, 2024, all policies as outlined in the Lakehead Source Protection Plan have been implemented by the respective implementing bodies or are in the process of being implemented as required.

Attachment #3 is the Tenth Annual Progress Report in the format developed by LRCA staff, which will be made available to the public on the source protection website as it provides a more comprehensive summary of the program. Attachment #4 is the Tenth Source Protection Annual Report (MECP template) for MECP submission, Attachment #5 is the Source Protection 2024 Supplemental Form (MECP template) and Attachment #5 is the 2024 Policy Implementation Status Report (MECP template).

## **FINANCIAL IMPLICATIONS**

Staff time required and any costs associated to complete annual reporting deliverables falls within the current drinking water source protection funding agreement with MECP, (DWSP 2024-2027 Lakehead Region). Future budget requests will consider future required funding.

## **CONCLUSION**

The Tenth Annual Lakehead Source Protection Plan reporting is complete and will be submitted to the MECP after SPA approval.

## **BACKGROUND**

The Lakehead Source Protection Plan is the culmination of the Lakehead SPC's efforts to draft policies to ensure that significant threats to Municipal Drinking Water Sources in the Lakehead Source Protection Area cease to be or never become significant drinking water threats. The Lakehead Source Protection Plan applies to the two Municipal Drinking Water Sources located within the Lakehead Source Protection Area that include: 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 32 homes within Rosslyn Village.

The Plan contains six legally binding policies that applied to two implementing bodies: Municipality of Oliver Paipoonge and the Thunder Bay District Health Unit. Two non-legally binding policies are included in the Plan that apply to the City of Thunder Bay, which are considered “best management practices” and are not mandatory but recommended.

To monitor the progress of the policies in the Plan, the implementing bodies are required to provide annual reports to the SPA by February 1<sup>st</sup> of every reporting year, summarizing the activities of the previous year.

**REFERENCE MATERIAL ATTACHED**

Attachment 1 – Municipality of Oliver Paipoonge Annual Reporting 2024

Attachment 2 – TBDHU Annual Source Protection Report 2024

Attachment 3 – Lakehead Source Protection Plan Annual Report, Reporting January 1, 2024 to December 31, 2024


Attachment 4 – Tenth Lakehead Source Protection Annual Report (MECP template)

Attachment 5 – Source Protection 2024 Supplemental Form

Attachment 6 – 2024 Policy Implementation Status

**PREPARED BY:**

Melissa Hughson, Watershed Manager

THIS REPORT SIGNED AND VERIFIED BY:  Tammy Cook Chief Administrative Officer	DATE: April 23, 2025
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**Lakehead Source Protection Plan**  
**Annual Report to the Lakehead Source Protection Authority**  
**Implementing Body: Municipality of Oliver Paipoonge**  
 4569 Oliver Road, Murillo, ON, P0T 2G0  
 Phone: (807) 935-2613

<b>Section 1 – General Information (Annual Report due by February 1 of each calendar year)</b>	
<b>Reporting Body Information:</b>	
<b>Reporting Year:</b>	JANUARY 1, 2024 TO DECEMBER 31, 2024
<b>Date of Report:</b>	JANUARY 3, 2025
<b>Report Completed By:</b>	WAYNE HANCHARD

<b>Section 2 - Policies</b>	
<b>Policy Number:</b>	<b>Policy Details:</b>
<b>RV.1.CW-PA</b>	<b>Prohibits the following future significant threats: establishing a waste disposal site, sewage treatment facilities (not including those under 10,000 litres a day), storage of organic solvents, storage of fuel, the storage of pure dense non-aqueous liquids (DNAPLs) and agricultural uses.</b>
<b>Policy Number:</b>	<b>Policy Details:</b>
<b>RV.2.M-PA</b>	<b>This Policy monitors the steps taken to implement the above Policy (RV.1.CW-PA)</b>

<b>Steps taken to implement Policy (RV.1.CW-PA)</b>	
<b>The following land uses are prohibited in WHPA-A:</b>	<b>Were any of the land uses permitted during the reporting period?</b>
Application of hauled sewage to land.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Mine tailings stored in a pit or in impoundment structures.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Land farming of petroleum refining waste.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Landfilling of hazardous waste.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Landfilling of municipal waste.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Land disposal of commercial or industrial waste.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Land disposal of liquid industrial waste.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Storage of PCBs.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
A waste disposal site that is not approved to accept hazardous waste or liquid industrial waste but accepts small volumes that are exempt from O. Reg. 347.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Lakehead Source Protection Plan Annual Report – Oliver Paipoonge

The following land uses are prohibited in WHPA-A:	Were any of the land uses permitted during the reporting period?
Sewage treatment facilities, not including septic systems under 10,000 litres per day.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Non-residential uses where organic solvents occur, including but not limited to dry cleaning operations, vehicle service centres, paint and hardware stores, retail or wholesale pharmaceutical storage and distribution centres.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Uses where fuel is stored including but not limited to, non-residential fuel storage, retail fuel outlets, uses where backup generators are required (with the exception of the backup generator used at the Rosslyn Village Water Treatment Plant), industrial operations and any other uses involving the bulk handling and storage of fuel.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Uses which include the storage of DNAPLs except for incidental volumes for personal domestic use.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Future Agricultural uses.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>The Official Plan and Zoning By-Law shall be brought into conformity with provisions 1 to 6 in the above noted policy (i.e.: prohibited uses listed above) in accordance with Section 26 of the Planning Act.</b>	
<b>Outline all amendments to the Official Plan and Zoning By-Law that were undertaken to achieve conformity (i.e.: prohibit uses in WHPA-A).</b>	
NONE	

<b>Policy Number:</b> RV.3.CW-SP	<b>Policy Details:</b> 1. To address the handling and storage of road salt (existing and future) and storage of snow (existing and future) the Municipality of Oliver Paipoonge shall prepare a Salt Management Plan to address the sensitivity of the Rosslyn Village WHPA-A within one year of the Source Protection Plan taking effect [by Sept. 30, 2014]. Specific actions that should be included in the plan to address the risk of road salt effects on source water include:  a) Locating salt and snow storage areas outside of the WHPA-A. b) Minimizing application of road salt within WHPA-A.  2. Copies of any Official Plan and Zoning By-law amendment applications in WHPA-A shall also be provided by the Municipality of Oliver Paipoonge to the Lakehead Source Protection Authority once they have been received for review and comment and shall provide copies of these amendments once they have been adopted. This procedure must be established within one year of the Source Protection Plan taking effect [by Sept. 30, 2014].
<b>Policy Number:</b> RV.4.M.SP	<b>Policy Details:</b> This Policy monitors the steps taken to implement the above Policy (RV.3.CW-SP).
<b>Steps taken to implement Policy (RV.3.CW-SP)</b>	
Describe the steps taken to determine the extent to which the specified action has achieved its objectives and any information on the results of those steps:	
Oliver Paipoonge must prepare a Salt Management Plan once it has been adopted (by September 30, 2014).	
Date of completed Salt Management Plan:	SEPTEMBER 22, 2014
Date Salt Management Plan was adopted by Council:	OCTOBER 15, 2014
<input type="checkbox"/> A copy of Oliver Paipoonge's current Salt Management Plan is attached.	

Lakehead Source Protection Plan Annual Report – Oliver Paipoonge

Are any salt or snow storage areas located in WHPA-A? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If yes, provide location and description of quantity of salt and/or snow stored:
Is road salt applied within WHPA-A? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If yes, provide details of application (i.e.: material, spread, frequency of applications, etc.):
Has a procedure been established to provide the SPA all zoning by-law amendments in WHPA-A? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
If yes, provide outline of procedure: <b>ALL PLANNING APPLICATIONS ARE CIRCULATED TO THE LRCA FOR COMMENT AND ANY APPLICATIONS WITHIN THE WHPA-A AREAS ARE HIGHLIGHTED</b>
<input type="checkbox"/> Copies of Official Plan and Zoning By-Law amendment applications in WHPA-A are attached.
Please list the attached items related to this policy ( <i>if applicable</i> ): <b>NO APPLICATIONS WERE COMPLETED IN WHPA-A IN 2024</b>

<b>Policy Number:</b>	<b>Policy Details:</b>
RV.5.CW-EO	<p>1. The Municipality of Oliver Paipoonge shall develop an education program regarding the potential harmful effects of plane de-icer within the WHPA-A. This material will be required in the event of an airport being proposed.</p> <p>2. To address all agricultural related drinking water threats (existing and future – Agricultural Source Material, Non-Agricultural Source Material, commercial fertilizer, pesticide and livestock grazing or pasturing of land, an outdoor confinement area or farm animal yard) the Municipality of Oliver Paipoonge shall develop an education and awareness program to advise the landowner in WHPA-A whose property currently contains existing agricultural threats. The Municipality shall prepare a package that will include information for best management practices and to raise awareness of and reduce drinking water threats. This information shall be developed and distributed within 2 years of the Source Protection Plan taking effect [by Sept. 30, 2015].</p> <p>3. The Municipality shall prepare a package that will include information for best management practices and to raise awareness of and reduce drinking water threats related to the harmful effects of DNAPLs impacting groundwater resources.</p>
<b>Policy Number:</b>	<b>Policy Details:</b>
RV.6.M-EO	This Policy monitors the steps taken to implement the above Policy (RV.5.CW-EO)
<b>Have the following education/outreach materials been produced?</b>	<b>If produced, how many copies have been distributed to residents/or number of people reached?</b>
Plane de-icer educational material. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Agricultural drinking water threats educational material (must be prepared and distributed by September 30, 2015). <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
DNAPL educational material. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

Lakehead Source Protection Plan Annual Report – Oliver Paipoonge

<input type="checkbox"/> Copies of Oliver Paipoonge’s plane de-icer educational material is attached.
<input type="checkbox"/> Copies of Oliver Paipoonge’s agricultural drinking water threats educational material is attached.
<input type="checkbox"/> Copies of Oliver Paipoonge’s DNAPL educational material is attached.
Items are not attached because <i>(if applicable)</i> :
Please list all additional items that are attached related to this policy <i>(if applicable)</i> :

This report has been reviewed and certified by the Municipality of Oliver Paipoonge CAO:

Name (print): WAYNE HANCHARD
Signature: <i>Wayne Hanchard</i> <i>JAN 7/25</i>
Title: CAO/CLERK

*For internal use only:*

Date received by LRCA staff:
Date accepted by Lakehead SPA:
Date forwarded to MOE:

**Revision Date: January 6, 2020**



**Lakehead Source Protection Plan**  
**Annual Report to the Lakehead Source Protection Authority**  
**Implementing Body: Thunder Bay District Health Unit**  
 999 Balmoral St, Thunder Bay, ON P7B 6E7  
 Phone: (807) 625-5900

Section 1 – General Information (Annual Report due by February 1 of each calendar year)	
Reporting Body Information:	
<b>Reporting Year:</b>	
<b>Date of Report:</b>	
<b>Report Completed By:</b>	

Section 2 - Policies				
Policy Number:		Policy Details:		
RV.3.CW-SP		All existing and future septic systems within WHPA-A must be inspected by June 20, 2016, and every 5 years thereafter		
Property ID #	Address in WHPA-A:	Inspected during reporting year:	Date of Inspection (if applicable):	Date of Last Inspection:
1	1 Alder Lane*	<input type="checkbox"/> Yes <input type="checkbox"/> No		
2	2 Alder Lane	<input type="checkbox"/> Yes <input type="checkbox"/> No		
3	3 Alder Lane*	<input type="checkbox"/> Yes <input type="checkbox"/> No		
4	9 Alder Lane	<input type="checkbox"/> Yes <input type="checkbox"/> No		
5	13 Alder Lane	<input type="checkbox"/> Yes <input type="checkbox"/> No		
6	114 Maple St.*	<input type="checkbox"/> Yes <input type="checkbox"/> No		
7	117 Maple St.*	<input type="checkbox"/> Yes <input type="checkbox"/> No		

Lakehead Source Protection Plan Annual Report - TBDHU

8	118 Maple St.	<input type="checkbox"/> Yes <input type="checkbox"/> No		
9	121 Maple St.	<input type="checkbox"/> Yes <input type="checkbox"/> No		
10	122 Maple St.	<input type="checkbox"/> Yes <input type="checkbox"/> No		
11	127 Maple St.	<input type="checkbox"/> Yes <input type="checkbox"/> No		
12	128 Maple St.	<input type="checkbox"/> Yes <input type="checkbox"/> No		
13	129 Maple St.	<input type="checkbox"/> Yes <input type="checkbox"/> No		
14	130 Maple St.	<input type="checkbox"/> Yes <input type="checkbox"/> No		
15	133 Maple St.	<input type="checkbox"/> Yes <input type="checkbox"/> No		
16	134 Maple St.	<input type="checkbox"/> Yes <input type="checkbox"/> No		
17	135 Maple St.	<input type="checkbox"/> Yes <input type="checkbox"/> No		
18	138 Maple St.*	<input type="checkbox"/> Yes <input type="checkbox"/> No		
19	139 Maple St.	<input type="checkbox"/> Yes <input type="checkbox"/> No		
20	3460 Rosslyn Rd.	<input type="checkbox"/> Yes <input type="checkbox"/> No		
21	3466 Rosslyn Rd.*	<input type="checkbox"/> Yes <input type="checkbox"/> No		

Lakehead Source Protection Plan Annual Report - TBDHU

22	3470 Rosslyn Rd.*	<input type="checkbox"/> Yes <input type="checkbox"/> No		
23	3476 Rosslyn Rd.*	<input type="checkbox"/> Yes <input type="checkbox"/> No		
24	3480 Rosslyn Rd.*	<input type="checkbox"/> Yes <input type="checkbox"/> No		
25	3482 Rosslyn Rd.	<input type="checkbox"/> Yes <input type="checkbox"/> No		

*\*These residences received new septic systems in 2011-2012 under ODWSP funding program*

<b>Policy Number:</b>	<b>Policy Details:</b>
RV.4.M.SP	This Policy monitors the steps taken to implement the above Policy (RV.3.CW-SP)
<b>Steps taken to implement Policy (RV.3.CW-SP)</b>	
<b>Describe the steps taken to determine the extent to which the specified action has achieved its objectives and any information on the results of those steps:</b>	
<input type="checkbox"/> No steps have been taken because:	
<input type="checkbox"/> The following steps have been taken:	
<b>Provide a summary compliance report outlining any corrective action found to be necessary as a result of the Sewage Systems Maintenance Program:</b>	
<input type="checkbox"/> A Summary Compliance Report is attached, or see below:	

Policy Number:	Policy Details:
RV.5.CW-EO	<p><b>This Policy number is designed to educate the residents of WHPA-A on septic threats on their property. Must be in place by September 30, 2015. Must be available for a minimum of two years (i.e. Sept. 30, 2017) and must include:</b></p> <p>a) <b>The reasons for the required inspection program.</b>                      b) <b>Maintenance of systems.</b>                      c) <b>Various types of allowed systems.</b>                      d) <b>Best management practices for using a system</b></p>
RV.6.M-EO	<p><b>This Policy monitors the steps taken to implement the above Policy (RV.5.CW-EO)</b></p>
<p><b>Steps taken to implement Policy (RV..CW-EO)</b></p>	
<p><input type="checkbox"/> No steps have been taken because:</p>	
<p><input type="checkbox"/> The following steps have been taken:</p> <p><input type="checkbox"/> Educational/Outreach materials have been completed and attached to this report.  <i>Please list the attached materials:</i></p>	
<p><input type="checkbox"/> Educational/Outreach materials are currently in draft form.</p>	<p><input type="checkbox"/> Educational/Outreach materials have been distributed to WHPA-A residents.</p>
<p><input type="checkbox"/> Research has begun on these materials, but no draft copy has been created.</p>	<p>Distributed on (<i>insert date</i>):</p>

This report has been reviewed and certified by the Thunder Bay District Health Unit:

Name (print):
Signature:
Title:

*For internal use only:*

Date received by LRCA:
Date accepted by SPA:
Date forwarded to MOE:

**Revision Date:** January 8, 2015

# Lakehead Source Protection Plan

## Annual Report

Reporting Period  
January 1, 2024 to December 31, 2024

Prepared by the Lakehead Source Protection Authority



**LAKEHEAD REGION**  
CONSERVATION AUTHORITY  
LAKEHEAD SOURCE PROTECTION AREA

# Lakehead Source Protection Plan Annual Report

Reporting Period:  
January 1, 2024 to December 31, 2024

April 30, 2025

Prepared by:

Lakehead Source Protection Authority

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## Executive Summary

As a requirement under the *Clean Water Act, 2006*, Source Protection Authorities (SPAs) are required to provide an annual progress report to the Director of the Ministry of the Environment, Conservation and Parks (MECP) by May 1<sup>st</sup> of every given reporting year. The report must also be provided to the Source Protection Committee (SPC) at least 30 days prior to submitting to the Director and be provided to the public as soon as reasonably possible after submission to the Director. This report represents the tenth annual progress report prepared by the Lakehead SPA, covering the period of January 1, 2024, to December 31, 2024.

The Lakehead Source Protection Plan is the culmination of the Lakehead SPC's efforts to draft policies to ensure that significant threats to Municipal Drinking Water Sources in the Lakehead Source Protection Area cease to be or never become significant drinking water threats. The Lakehead Source Protection Plan applies to the two Municipal Drinking Water Sources located within the Lakehead Source Protection Area that include: 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 Plan contains six legally binding policies that apply to two implementing bodies: the Municipality of Oliver Paipoonge and the Thunder Bay District Health Unit. Two non-legally binding policies are included in the Plan that apply to the City of Thunder Bay, which were considered "best management practices" and are not mandatory but recommended.

In order to monitor the progress of the policies in the Plan, the implementing bodies are required to provide annual reports to the SPA by February 1<sup>st</sup> of every reporting year, summarizing the activities of the previous year. Annual reports have been received by the Lakehead SPA from the implementing bodies since 2013.

Actions completed by the Municipality of Oliver Paipoonge over the reporting period included: Completion of the annual report to the SPA. There were no Official Plan and Zoning By-law amendment applications within WHPA-A in 2024.

Future policy actions required by the Municipality of Oliver Paipoonge include: continuing to circulate all Official Plan and Zoning by-law *Planning Act* applications within WHPA-A to the SPA; continuing to prohibit prohibited land uses in WHPA-A; continue to locate salt and snow storage outside of WHPA-A; continue to minimize salt application in WHPA-A; continue to have the facts sheets related to DNAPLs and plane de-icer available for

distribution; and prepare and submit annual reports to the SPA by February 1<sup>st</sup> of every reporting year.

Actions completed by the Thunder Bay District Health Unit over the reporting period included: completion of the annual report to the SPA and septic re-inspections within WHPA-A. The initial required septic system inspections were completed by the Thunder Bay District Health Unit as of November 2016 and were reinspected as required (i.e., within 5 years) in 2019, 2020, 2021 and restarted in 2024.

Future policy actions required by the Thunder Bay District Health Unit include: re-inspect all septic systems within WHPA-A every five years (the re-inspection cycle started again in 2024), and prepare and submit annual reports to the SPA by February 1<sup>st</sup> of every reporting year.

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.

Future policy actions recommended to be completed by the City of Thunder Bay include: annually place three buoys marking the anchorage boundary in proximity of the intake; provide the SPA copies of any updates to the Spill Prevention and Contingency Plan and a summary of any actions taken to protect the Bare Point Intakes, as well as providing updates to the Standard Operating Procedure related to monitoring and reporting of blue-green algae blooms.

For the reporting period of January 1, 2024 to December 31, 2024, all policies as outlined in the Lakehead Source Protection Plan have been implemented by the respective implementing bodies or are in the process of being implemented as required.

No actions were taken over the reporting period to address deficiencies noted in the Assessment Report.

A Section 36 Workplan was submitted to MECP by the SPA on April 25, 2023 in compliance with the Minister's order dated May 7, 2018. The Minister of MECP responded to the submitted workplan on October 24, 2023 advising that Lakehead's workplan was approved to address the workplan items as identified in the attached order. Based on additional clarification from MECP the proposed updates within the workplan are considered discretionary and not mandatory. The SPC reviewed the Minister's order at the March 11, 2024 meeting and resolved to complete the proposed Section 36 updates as written in the workplan, and in accordance with the Minister's order pending available funding. Funding was received within the 2024-2027 Transfer Payment Agreement with MECP; the proposed Section 36 updates will be undertaken beginning in 2025.

The next annual report is due from the Lakehead SPA to the Director of the MECP on May 1, 2026 for the period of January 1, 2025 to December 31, 2025.

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M-1 – Lakehead Source Protection Area

## 1 Introduction

Source Protection Authorities (SPAs) are required under the *Clean Water Act, 2006* to provide Source Protection Plan annual progress reports to the Director of the Ministry of the Environment, Conservation and Parks (MECP), Source Protection Committee (SPC) and the public. The Minister of the MECP is required to include a summary of the progress reports in the annual report prepared by the Minister under the *Safe Drinking Water Act, 2002*.

This report is the tenth annual progress report prepared by the Lakehead SPA for the period of January 1, 2024 to December 31, 2024.

In addition to this Annual Report, the SPA has completed and provided to the MECP “Source Protection Annual Progress Report”, “Annual Progress Reporting Supplemental Form for Source Protection” and the “Policy Implementation Status” (templates provided by the MECP) that provide a summary of reportable data which the Ministry can utilize in the completion of the Minister’s annual report.

### 1.1 Legislation

Annual reporting requirements are outlined in the *Clean Water Act, 2006* Section 46 and Ontario Regulation 287/07, Section 52 under the *Clean Water Act, 2006*.

#### 1.1.1 Clean Water Act, Section 46

Section 46 under the *Clean Water Act, 2006* specifies the requirement of the completion of annual reports. The SPA must annually prepare and submit to the Director and the SPC in accordance with the Regulations a report that:

- 1) describes the measures that have been taken to implement the Source Protection Plan, including measures taken to ensure that activities cease to be significant drinking water threats and measures taken to ensure that activities do not become significant drinking water threats;
- 2) describes the results of any monitoring program conducted pursuant to section 45;
- 3) describes the extent to which the objectives set out in the Source Protection Plan are being achieved; and
- 4) contains such other information as is prescribed by the regulations.

The SPA must provide the report to the SPC at least 30 days prior to submitting to the Director. The SPC shall review the report and provide written comments to the SPA about the extent to which, in the opinion of the Committee, the objectives set out in the Source Protection Plan are being achieved by the measures described in the report. If the SPA receives SPC comments before submitting the report to the Director, copies of the

comments shall be included in the report. The report is to be made available to the public as soon as reasonably possible after it is submitted to the Director. The Minister shall include a summary of the reports submitted by SPAs under Section 46 in the annual report prepared by the Minister under the *Safe Drinking Water Act*.

### **1.1.2 Ontario Regulation 287/07, Section 52**

Section 52 of Ontario Regulation 287/07 under the *Clean Water Act* outlines the requirements related to annual progress reports. The first report due shall apply to the period beginning the day the Plan takes effect and ending December 31, of the second calendar year following the year in which the Plan takes effect (i.e. October 1, 2013 to December 31, 2015 in the case of the Lakehead Source Protection Plan). Subsequent reports shall be for the full calendar year. Reports are due May 1 of the year following the year to which the report applies.

The report must include:

- 1) If the Source Protection Plan sets out a policy that specifies a date by which a particular action shall be taken by a person or body, and the person or body fails to take that action by that date, a description of the failure and the reasons for the failure.
- 2) A description of any steps taken during the reporting period to address any deficiencies in the information that was used in developing the Assessment Report set out in the Source Protection Plan.
- 3) A summary of the report prepared and submitted by the risk management official under section 81 of the Act for the same calendar year to which the report under section 26 of the Act applies (not applicable to the Lakehead Source Protection Plan, as there are no required Risk Management Officials).
- 4) Any other information that the SPA considers advisable.

## **2 Background**

The Ontario government enacted the *Clean Water Act, 2006* in order to protect sources of water supplying municipal drinking water systems and ultimately human health and the environment. This was in response to the Walkerton tragedy, in which the municipal drinking water system became contaminated resulting in the death of seven residents and thousands falling ill.

Ontario's Conservation Authorities were provided funding from the MECP to acquire the resources necessary to implement the proposed "protection of water at its source". The Minister of the MECP appointed Chairs for SPCs. Subsequently, representatives from the watershed community were appointed to the SPCs.

The first step of the Source Protection Planning process required each SPC to prepare Terms of Reference. These documents outlined all necessary steps that document and implement the Source Protection Plan. Upon completion of the Terms of Reference, the Assessment Report, Watershed Characterization Report, and Water Budget and Water Quantity Stress Assessment were completed. The technical studies were utilized to determine vulnerable areas where contamination or shortages of water could be an issue for Municipal Drinking Water Sources. Technical studies were also used to establish a list of threats that were located within the vulnerable areas. The completed studies were then used to develop the Source Protection Plan. The Source Protection Plan contains a series of policies developed by the SPC in consultation with the local community to protect municipal drinking water sources from existing and future drinking water threats. The Plan describes the actions that must be taken by various agencies to protect surface water and groundwater sources that supply municipal drinking water.

Copies of all completed technical studies, the Lakehead Source Protection Plan, and previous Annual Progress Reports are available on-line at [www.lakeheadca.com](http://www.lakeheadca.com).

## **2.1 Lakehead Source Protection Area**

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, which differs from the Lakehead Source Protection Area, covers 2,700 square kilometres and is defined by the municipal boundaries of its eight Member Municipalities including: the City of Thunder Bay, the Municipalities of Oliver Paipooonge, Shuniah and Neebing and the Townships of O'Connor, Conmee, Dorion and Gillies. See Map M-1, Lakehead Source Protection Area.

## **2.2 Lakehead Source Protection Plan**

The Lakehead Source Protection Plan is the culmination of the Lakehead SPC's efforts to draft policies to ensure that significant threats to Municipal Drinking Water Sources in the Lakehead Source Protection Area cease to be or never become significant drinking water threats.

Within the Lakehead Source Protection Area, there are 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 32 homes within Rosslyn Village.

The Source Protection Plan contains a series of policies developed by the SPC in consultation with the local community to protect municipal drinking water sources from existing and future drinking water threats. The Plan describes the actions that must be

taken by various agencies to protect surface water and groundwater sources that supply municipal drinking water.

It is noted that the Lakehead Source Protection Plan did not include any policies that required Risk Management Officials or the development of Risk Management Plans.

There are two implementing bodies that are required to implement the Plan’s legally binding policies, they include the Municipality of Oliver Paipoonge and the Thunder Bay District Health Unit and are related to the Wellhead Protection Zones associated with the Rosslyn Village water supply. No significant or moderate threats were found to occur within the Intake Protection Zones of the City of Thunder Bay’s Bare Point Water Treatment Plant; therefore, only two non-legally binding policies, which do not require mandatory actions, are applicable to the City of Thunder Bay.

**2.2.1 Approval of the Source Protection Plan**

The Lakehead Source Protection Plan was approved by the Minister of MECP on January 16, 2013, with an effective date of October 1, 2013.

**2.2.2 Updates to the Source Protection Plan**

A Section 36 Order was issued to the Lakehead SPA from the Minister of the MECP on October 13, 2015. The Order specified that the SPA shall prepare and submit a Workplan to the MECP by November 30, 2017. The Order required that the Workplan include detailed steps for the review of the Source Protection Plan and be developed in consultation with the Lakehead SPC, participating municipalities of the Source Protection Area, and the MECP. The Order also required that the Lakehead SPA take information from the first two annual progress reports into account in preparation of the Workplan.

The Lakehead SPA proposed the following changes to the Lakehead Assessment Report and SPP, as outlined in Table 1 below.

*Table 1. Proposed updates, 2017 Section 36 Workplan.*

Proposed Update No.	Description of Proposed Update	Implementing Body/Municipality	Applicable Document
1	IPZ-2 update with new floodplain mapping for North Star Creek.	City of Thunder Bay	Assessment Report and SPP
2	Update of Policy RV.1.CW-PA in SPP to remove references to the size of prohibited Waste Disposal Sites.	Municipality of Oliver Paipoonge	SPP

3	Review of Policy RV.5.CW-EO in SPP to assess the need to distribute Education and Outreach materials in the future. Remove EO materials related to agriculture.	Municipality of Oliver Paipoonge and TBDHU	SPP
4	Update of Policy RV.1.CW-PA in SPP to ensure future updates of Official Plan and Zoning continue to reflect applicable policies.	Municipality of Oliver Paipoonge	SPP
5	Update of Policy RV.3.CW-SP in SPP to require updates and/or reviews of Salt Management Plan.	Municipality of Oliver Paipoonge	SPP
6	Update of Policy TB.1.NLB-SP in SPP to require the placement of a minimum of three buoys at the surface water Intake.	City of Thunder Bay	SPP

The Section 36 Workplan was submitted to the MECP on November 30, 2017. The Minister responded on May 8, 2018 and noted that a comprehensive review and update of the Lakehead SPP and Assessment Report was not required at that time. Further consultation with the Ministry confirmed that the Lakehead SPA could complete the proposed changes either under Section 34 or wait until the next review and submission of the Section 36 Workplan in five years (i.e., May 2023).

It was decided to not proceed with a Section 34 amendment and assess again during the next Section 36 Workplan process.

As per the Minister’s Order dated May 8, 2018, an updated Section 36 Workplan was submitted to MECP on May 7, 2023. The Lakehead SPA proposed the following updates to the SPP as listed in Table 2:

*Table 2. Proposed updates, 2023 Section 36 Workplan.*

<b>Proposed Update No.</b>	<b>Description of Proposed Update</b>	<b>Implementing Body/Municipality</b>	<b>Applicable Document</b>
1	Update of Policy RV.1.CW-PA in SPP to remove references to the size of prohibited Waste Disposal Sites.	Municipality of Oliver Paipoonge	SPP
2	Review of Policy RV.5.CW-EO in SPP to assess the need to distribute Education and Outreach materials in the future. Remove EO materials related to agriculture.	Municipality of Oliver Paipoonge and TBDHU	SPP

3	Update of Policy RV.1.CW-PA in SPP to ensure future updates of Official Plan and Zoning continue to reflect applicable policies.	Municipality of Oliver Paipoonge	SPP
4	Update of Policy RV.3.CW-SP in SPP to require updates and/or reviews of Salt Management Plan.	Municipality of Oliver Paipoonge	SPP
	Update of Policy TB.1.NLB-SP in SPP to require the placement of a minimum of three buoys at the surface water Intake.	City of Thunder Bay	SPP

In a letter dated October 24, 2023 from the Minister of MECP, Lakehead’s Section 36 Workplan was approved to update the workplan items identified in the attachment to the order which consisted of updates to the Director’s Technical Rules. Upon follow-up correspondence with MECP, it was confirmed that Lakehead’s proposed updates within the Section 36 workplan are considered discretionary and can be undertaken as long as they are in scope and follow the technical rules.

The SPC reviewed the Minister’s order at the March 11, 2024 meeting and has resolved to proceed with the proposed updates as listed above in Table 2 pending available funding. Funding was received within the 2024-2027 Transfer Payment Agreement with MECP; the proposed Section 36 updates will be undertaken beginning in 2025.

### **2.3 Source Protection Authority (SPA)**

The SPA for the Lakehead Source Protection Area follows the same structure as the LRCA Board of Directors. The LRCA Board is made up of members appointed by their respective municipal councils, which are either elected officials or appointed members of the public. For the reporting period, the SPA composition was the same as the LRCA Board of Directors.

#### **2.3.1 Source Protection Authority Membership**

SPA membership throughout the term of the reporting period included:

1. Donna Blunt, Municipality of Shuniah, Chair
2. Grant Arnold, Township of Conmee, Vice-Chair
3. Robert Beatty, Township of Dorion
4. Rudy Buitenhuis, Township of Gillies
5. Brian Kurikka, Municipality of Neebing
6. Jim Vezina, Township of O’Connor
7. Dan Calvert, Municipality of Oliver Paipoonge
8. Sheelagh Hendrick, City of Thunder Bay
9. Albert Aiello, City of Thunder Bay
10. Greg Johnsen, City of Thunder Bay

11. Trevor Giertuga, City of Thunder Bay

## **2.4 Source Protection Committee (SPC)**

The SPC, as stated in the *Clean Water Act*, was responsible for preparing the Terms of Reference, the Assessment Report and the Source Protection Plan, while being supported by the SPA. Through an application process, the Lakehead SPC was initially appointed by the SPA in the fall of 2007.

As outlined in O. Reg. 288/07 under the *Clean Water Act*, the SPA passed a resolution in April 2016 to reduce the Lakehead SPC from nine members to six. Following an application process, the new members of the reduced SPC were appointed by the SPA on November 30, 2016.

### **2.4.1 Source Protection Committee Chair**

The Minister of the MECP appoints the Chair of the SPC. The Chair of the Lakehead SPC over the term of the reporting period was Ms. Lucy Kloosterhuis, who was appointed by the Minister of the MECP, from September 24, 2019 to August 19, 2022, and reappointed for the term of October 18, 2022 to August 20, 2025.

### **2.4.2 Source Protection Committee Membership**

The Lakehead SPC non-municipal members were appointed by the SPA on October 27, 2021, for a term of five years commencing on December 1, 2021.

On March 27, 2022, Erin Knight (public member) resigned from the Source Protection Committee. After completing the recruitment process, Mr. Mike Fabius was appointed as a Public Member, for a five-year term expiring November 30, 2026.

For the reporting period, membership of the SPC consisted of the following six members:

- Municipal
  - Walter Turek, City of Thunder Bay
  - Chris Bowles, Municipality of Oliver Paipoonge
- Industrial
  - Ashleigh Marchl, Thunder Bay Pulp and Paper (December 1, 2021 to November 30, 2026)
- Agricultural
  - Bernie Kamphof (December 1, 2021 to November 30, 2026)
- Other
  - Shanley Thompson, Environmental (December 1, 2021 to November 30, 2026)
  - Mike Fabius (May 30, 2022 to November 30, 2026).

The SPC has also been supported by non-voting Liaison members. Over the reporting period, the First Nations liaison position remained vacant.

- Liaison Members
  - Lee Sieswerda, Thunder Bay District Health Unit
  - Monika Lemke, Ministry of the Environment, Conservation and Parks
  - Tammy Cook, Chief Administrative Officer, Lakehead Region Conservation Authority

### **3 Lakehead Source Protection Plan Policies**

The following are the policies that the implementing bodies (i.e. Municipality of Oliver Paipoonge and Thunder Bay District Health Unit) are required to implement.

No significant or moderate threats were found to occur within the Intake Protection Zones of the City of Thunder Bay’s Bare Point Water Treatment Plant. For this reason, only two Specify Action policies were included in the Lakehead Source Protection Plan. These policies are non-legally binding; however, they were considered important to the SPC, and represents a good faith commitment on behalf of the City of Thunder Bay. The City must have regard for these policies and should consider them when making decisions pertaining to their applicability.

The full policies can be viewed in the full version of the Lakehead Source Protection Plan that is available on-line at [www.lakeheadca.com](http://www.lakeheadca.com).

#### **3.1 Municipality of Oliver Paipoonge**

The Lakehead Source Protection Plan contains six policies that apply to the Municipality of Oliver Paipoonge. The policies were implemented to ensure activities that are or would be a significant threat to municipal drinking water sources cease to exist or never become significant.

Policies that apply to the Municipality of Oliver Paipoonge are summarized below:

1. Policy RV.1.CW-PA prohibits future significant threats by prohibiting certain land uses.

Policy number RV.1.CW-PA (on page 55 of the Plan) states:

The following land uses are prohibited in Wellhead Protection Area A (WHPA-A):

- 1) Land uses that normally require waste disposal sites approvals including:
  - Application of hauled sewage to land;

- Mine tailings stored in a pit or in impoundment structures where the National Pollutant Release Inventory (NPRI) notice requires a person to report;
  - Landfarming of petroleum refining waste (more than ten hectares);
  - Landfilling of hazardous waste (less than one hectare);
  - Landfilling of municipal waste (less than one hectare);
  - Land disposal of commercial or industrial waste (less than one hectare);
  - Land disposal of liquid industrial waste
  - Storage of PCBs; and
  - A waste disposal site that is not approved to accept hazardous waste or liquid industrial waste but accepts small volumes that are exempt from Ontario Regulation 347.
- 2) Sewage treatment facilities, not including septic systems under 10,000 litres per day.
  - 3) Non-residential uses where organic solvents occur including, but not limited to, dry cleaning operations, vehicle service centres, paint and hardware stores, retail or wholesale pharmaceutical storage and distribution centres.
  - 4) Uses where fuel is stored including but not limited to, non-residential fuel storage, retail fuel outlets, uses where backup generators are required (with the exception of the backup generator at the Rosslyn Village Water Treatment Plant), industrial operations and any other uses involving the bulk handling and storage of fuel.
  - 5) Uses which include the storage of dense non-aqueous phase liquid (DNAPLs) except for incidental volumes for personal domestic use.
  - 6) Future Agricultural uses.
  - 7) The Official Plan and Zoning By-law shall be brought into conformity with provisions 1 to 6 in accordance with Section 26 of the *Planning Act*.
2. Policy RV.2.M-PA is used to monitor the implementation of RV.1.CW-PA under the Source Protection Plan. Through the monitoring, the Lakehead SPA can monitor changes to the Official Plan and necessary Zoning By-laws. This will help to facilitate the monitoring process and advise the SPC of any issues related to the Land Use Planning Policy.

Policy RV.2.M-PA (located on page 57 of the Plan) states:

In relation to policy RV.1.CW-PA, the Municipality of Oliver Paipoonge shall provide an Annual Report to the Lakehead SPA by February 1 of each year on the steps it has taken in the previous calendar year to implement the policies that are set out in the Source Protection Plan and apply to its decisions under the *Planning Act* and the *Condominium Act*.

The SPA, in conjunction with the Municipality, shall evaluate the effectiveness of the significant threat policies in the Source Protection Plan that affect *Planning Act* and *Condominium Act* decisions.

3. Policy RV.3.CW.SP manages future significant threats of application handling and storage of road salt, and storage of snow and potential future land use changes.

Policy RV.3.CW.SP (located on page 58 of the Plan) states:

To address the handling and storage of road salt (existing and future) and storage of snow (existing and future) the Municipality of Oliver Paipoonge shall prepare a Salt Management Plan to address the sensitivity of the Rosslyn Village WHPA-A within one year of the Source Protection Plan taking effect. Specific actions that should be included in the plan to address the risk of road salt effects on source water include:

- a) Locating salt and snow storage areas outside of the WHPA-A
- b) Minimizing application of road salt within WHPA-A

Copies of any Official Plan and Zoning By-law amendment applications in WHPA-A shall also be provided by the Municipality of Oliver Paipoonge to the Lakehead SPA once they have been received for review and comment and shall provide copies of these amendments once they have been adopted. This procedure must be established within one (1) year of the Source Protection Plan taking effect.

4. Policy RV.4.M.SP is the monitoring policy that has been put in place in order to monitor the actions and measures of policy RV.3.CW.SP.

Policy RV.4.M.SP (located on page 60 of the Plan) states:

By February 1 of each year after the Source Protection Plan takes effect, the Municipality of Oliver Paipoonge shall provide an Annual Report to the Lakehead SPA with a description of the actions/measures they have taken to implement policy RV.3.CW-SP during the previous calendar year. The report shall also include a description of what steps are being taken to determine the extent to which the specified action has achieved its objectives and any information on the results of those steps.

The Municipality of Oliver Paipoonge shall provide the Lakehead SPA with a copy of the Salt Management Plan once it is adopted.

5. Policy RV.5.CW-EO is designed to educate the residents of WHPA-A on existing and possible future threats on their property related to plane de-icer, agricultural threats and DNAPLs.

Policy RV.5.CW-EO (located on page 62 of the Plan) states:

The Municipality of Oliver Paipoonge shall develop an education program regarding the potential harmful effects of plane de-icer within the WHPA-A. This material will be required in the event of an airport being proposed.

To address all agricultural related drinking water threats (existing and future – Agricultural Source Material, Non-Agricultural Source Material, commercial fertilizer, pesticide and livestock grazing or pasturing of land, an outdoor confinement area or farm animal yard) the Municipality of Oliver Paipoonge shall develop an education and awareness program to advise the landowner in WHPA-A whose property currently contains existing agricultural threats. The Municipality shall prepare a package that will include information for best management practices and to raise awareness of and reduce drinking water threats. This information shall be developed and distributed within 2 years of the Source Protection Plan taking effect.

The Municipality shall prepare a package that will include information for best management practices and to raise awareness of and reduce drinking water threats related to the harmful effects of DNAPLs impacting groundwater resources.

6. Policy RV.6.M-EO has been put forth to monitor policy RV.5.CW-EO, allowing the Lakehead SPA to ensure the actions and measures being carried out by the Municipality of Oliver Paipoonge are in compliance with the Source Protection Plan.

Policy RV.6.CW-EO (located on page 62 of the Plan) states:

By February 1 of each year, the Municipality of Oliver Paipoonge shall provide an Annual Report to the Lakehead SPA with a description of the actions/measures they have taken to implement the education and outreach program in the Source Protection Plan in the previous calendar year. The report shall also include a description of what steps are being taken to determine the extent to which the

program has achieved its objectives and any information on the results of those steps.

The Municipality of Oliver Paipoonge shall also provide a copy of any materials produced and the number of residents reached by the education and outreach materials.

The policies are applicable to the Municipality of Oliver Paipoonge and only apply to the WHPA-A designated area.

### **3.2 Thunder Bay District Health Unit**

Four policies apply to the Thunder Bay District Health Unit (TBDHU), summarized as follows:

1. Policy number RV.3.CW-SP (on page 58 of the Plan) manages the existing significant threat of septic systems under 10,000 litres a day as well as new septic systems under 10,000 liters a day. The Policy states:

The Thunder Bay District Health Unit shall ensure that on-site sewage maintenance inspections are conducted on all existing and future septic systems within WHPA-A, under the authority of the Building Code. This process will begin within 5 years of the approval of the Assessment Report for the Lakehead Source Protection Area (June 21, 2011).

All septic system inspections within the Rosslyn Village Wellhead Protection Area-A (WHPA-A) must be completed by the Thunder Bay District Health Unit on or before June 20, 2016, and every five years thereafter.

2. Policy RV.4.M.SP (on page 60 on the Plan) is the monitoring policy that has been put in place in order to monitor the actions and measures of policy RV.3.CW.SP.

The Policy states:

By February 1 of each year after the Source Protection Plan takes effect, the Thunder Bay District Health Unit shall provide an Annual Report to the Lakehead SPA with a description of the actions/measures they have taken to implement policy RV.3.CW-SP during the previous calendar year. The report shall also include a description of what steps are being taken to determine the extent to which the specified action has achieved its objectives and any information on the results of those steps.

The Thunder Bay District Health Unit shall also provide the Lakehead SPA with the following information:

- a) Results of mandatory sewage system maintenance inspections.
  - b) A summary compliance report outlining any corrective action found to be necessary as a result of the Sewage Systems Maintenance Program.
3. Policy number RV.5.CW-EO (on page 62 on the Plan) is designed to educate the residents of WHPA-A on existing and possible future threats on their property.

The Policy states:

To address septic systems under 10,000 litres a day (existing and future) the Thunder Bay District Health Unit shall provide within two years of the Source Protection Plan taking effect, information to landowners whose properties are serviced by an on-site sewage system within WHPA- A. The information shall be made available for a minimum of two years and will include:

- a) The reasons for the required inspection program.
  - b) Maintenance of systems.
  - c) Various types of allowed systems.
  - d) Best management practices for using a system.
4. Policy number RV.6.M-EO (on page 64 on the Plan) states:

By February 1 of each year, the Thunder Bay District Health Unit shall provide an Annual Report to the Lakehead SPA with a description of the actions/measures they have taken to implement the education and outreach program (Policy RV.5.CW-EO) in the Source Protection Plan in the previous calendar year. The report shall also include a description of what steps are being taken to determine the extent of which the program has achieved its objectives and any information on the results of those steps.

Enclosed with the Thunder Bay District Health Unit Annual Report shall be copies of any materials produced and the number of landowners/operators/persons engaged in significant drinking water threats reached by the program.

### **3.3 City of Thunder Bay**

The Specify Action policies within the Lakehead Source Protection Plan are non-legally binding; however, were considered important to the Lakehead SPC during the Plan

development. They are recommended “best management practices” for the City of Thunder Bay.

Policy TB.1.NLB-SP was implemented to protect the intake pipe from the potential impacts of ship anchorage. The policy states:

The City of Thunder Bay should update a Spill Prevention and Contingency Plan that may include, at a minimum placing a buoy at the anchorage boundary that is within proximity to the Intake. It was further recommended by the Lakehead SPA that the City of Thunder Bay should consider the following: instead of placing one buoy on the anchorage line, it was suggested that buoys were placed at the intersections of the anchorage line and Intake Protection Zone 2 (IPZ 2), if depth permits. The City took the recommendation into consideration and places three buoys to prevent anchorage over the intake.

Policy TB.2.M-SP was created to monitor the implementation of Policy TB.1.NLB-SP by stating that the City of Thunder Bay shall provide the Lakehead SPA with a copy of any updates to the Spill Prevention and Contingency Plan that is created, any actions that are taken under this Plan to protect the Bare Point Intakes, including blue-green algae monitoring.

#### 4 Source Protection Plan Implementation Status

The following table summarizes the implementation status of the policies with action items included in the Source Protection Plan, along with the dates of all tasks completed during the reporting period of January 1, 2024 to December 31, 2024.

Table 3. Source Protection Plan Implementation Status

<b>Table 1: Lakehead Source Protection Plan Policy Implementation Status</b>				
<b>Policy #</b>	<b>Implementing Body</b>	<b>Policy Description</b>	<b>Implementation Completion Date</b>	<b>Status</b>
RV.1.CW-PA	Municipality of Oliver Paipoonge	Update Official Plan and Zoning By-Law to reflect prohibitions and provide conformity with the Plan.	Official Plan updated and adopted May 2018. Official Plan references SPP Policies.  Zoning by-law updated December 2018.  Site Specific Zoning amendment 745-2013 passed, removing agriculture, stables, riding academies and dog kennels from list of permitted uses for	<b>Implemented</b>

<b>Table 1: Lakehead Source Protection Plan Policy Implementation Status</b>				
<b>Policy #</b>	<b>Implementing Body</b>	<b>Policy Description</b>	<b>Implementation Completion Date</b>	<b>Status</b>
			portion of land parcel located in WHPA-A.	
RV.2.M-PA	Municipality of Oliver Paipoonge	Provide Annual Report to SPA every year by February 1 <sup>st</sup> of each year related to decisions under the <i>Planning Act</i> and <i>Condominium Act</i>	Reports received by SPA: January 24, 2014 January 29, 2015 January 28, 2016 January 30, 2017 January 30, 2018 January 8, 2019 January 28, 2020 January 5, 2021 January 27, 2022 January 27, 2023 January 15, 2024 January 3, 2025	<b>Implemented</b>  <b>On-going</b> Subsequent reports due in future reporting years.
RV.3.CW-SP 1)	Municipality of Oliver Paipoonge	Prepare Salt Management Plan by October 1, 2014	October 2, 2014  Adopted by Council October 15, 2014  No salt or snow stored in WHPA-A. No salt applied in WHPA-A.	<b>Implemented</b>  <b>On-going</b> Continue to not store snow and salt and minimize salt application in WHPA-A
RV.3.CW-SP 2)	Thunder Bay District Health Unit	Inspect all septic's located within WHPA-A by June 20, 2016 and every 5 years thereafter.  Next inspection round will be between 2024 – 2026.	25 of 25 inspected as of 2016.  7 septics reinspected in 2019. 6 septics reinspected in 2020. 12 septics reinspected in 2021.  25 of 25 reinspected as of 2021.  13 septics reinspected in 2024; no observed issues; 1 follow-up inspection planned for 2025 regarding maintenance requirements for advance sewage treatment systems.	<b>Implemented</b>  <b>On-going</b> All septic systems will be inspected every 5 years from the date of initial inspection.

<b>Table 1: Lakehead Source Protection Plan Policy Implementation Status</b>				
<b>Policy #</b>	<b>Implementing Body</b>	<b>Policy Description</b>	<b>Implementation Completion Date</b>	<b>Status</b>
			Remaining 12 septic systems will be reinspected between 2025 and 2026.	
RV.3.CW-SP 3)	Municipality of Oliver Paipoonge	Provide copies of all Official Plan and Zoning by-law amendment applications in WHPA-A to SPA and establish procedure by October 1, 2014.	All Official Plan and Zoning by-law amendment applications are provided to the SPA	<b>Implemented</b>  <b>On-going</b> Future applications in WHPA-A to be provided to SPA.
RV.4.M-SP 1)	Municipality of Oliver Paipoonge	Provide Annual Report to SPA every year by February 1 <sup>st</sup> of each year related to Policy RV.3.CW-SP.  Provide a copy of the Salt Management Plan once it is adopted.	Reports received by SPA: January 24, 2014 January 29, 2015 January 28, 2016 January 30, 2017 January 30, 2018 January 8, 2019 January 28, 2020 January 5, 2021 January 27, 2022 January 27, 2023 January 15, 2024 January 3, 2025  Salt Management Plan received October 2, 2014	<b>Implemented</b>  <b>On-going</b> Subsequent reports due in future reporting years.
RV.4.M-SP 2)	Thunder Bay District Health Unit	Provide Annual Report to SPA every year by February 1 <sup>st</sup> of each year related to Policy RV.3.CW-SP.  Include results of mandatory septic system inspections and any corrective actions.	Reports received by SPA: January 30, 2014 January 23, 2015 January 19, 2016 January 16, 2017 January 30, 2018 January 3, 2019 January 10, 2020 January 5, 2021 January 4, 2022 January 16, 2023 January 29, 2024 January 14, 2025	<b>Implemented</b>  <b>On-going</b> Subsequent reports due in future reporting years.

<b>Table 1: Lakehead Source Protection Plan Policy Implementation Status</b>				
<b>Policy #</b>	<b>Implementing Body</b>	<b>Policy Description</b>	<b>Implementation Completion Date</b>	<b>Status</b>
RV.5.CW-EO 1)	Thunder Bay District Health Unit	By October 1, 2015, provide information to landowners in WHPA-A related to septic inspection program, maintenance, types of systems allowed and best management practices. Information must be available for a minimum of two years.	Distributed to WHPA-A residents on:  February 7, 2014 January 11-15, 2016 January 16-20, 2017	<b>Implemented</b>
RV.5.CW-EO 2)	Municipality of Oliver Paipoonge	Develop an education program regarding harmful effects of plane de-icer within WHPA-A.	Fact Sheet created	<b>Implemented</b>
RV.5.CW-EO 3)	Municipality of Oliver Paipoonge	Develop an education program regarding agricultural threats to advise the landowner in WHPA-A whose property contains existing agricultural threats. Package must be provided by October 1, 2015.	Package distributed prior to September 30, 2015	<b>Implemented</b>
RV.5.CW-EO 4)	Municipality of Oliver Paipoonge	Develop a package that includes information for best management practices and raise awareness related to the threats posed by DNAPLS.	Fact Sheet created and distributed prior to September 30, 2015.	<b>Implemented</b>
RV.6.M-EO 1)	Thunder Bay District Health Unit	Provide Annual Report to SPA every year by February 1 <sup>st</sup>	Reports received by SPA: January 30, 2014 January 23, 2015 January 19, 2016	<b>Implemented</b>  <b>On-going</b>

<b>Table 1: Lakehead Source Protection Plan Policy Implementation Status</b>				
<b>Policy #</b>	<b>Implementing Body</b>	<b>Policy Description</b>	<b>Implementation Completion Date</b>	<b>Status</b>
		of each year related to Policy RV.5.CW-EO.  Provide copies of any material produced and number of residents reached by program.	January 16, 2017 January 30, 2018 January 3, 2019 January 10, 2020 January 5, 2021 January 4, 2022 January 16, 2023 January 29, 2024 January 14, 2025	Subsequent reports due in future reporting years.  Note – E&O material was distributed between 2015 – 2017.
RV.6.M-EO 2)	Municipality of Oliver Paipoonge	Provide Annual Report to SPA every year by February 1 <sup>st</sup> of each year outlining what actions have been taken to implement the education and outreach program.  Provide a copy of materials produced and number of people reached by program.	Reports received by SPA: January 24, 2014 January 29, 2015 January 28, 2016 January 30, 2017 January 30, 2018 January 3, 2019 January 28, 2020 January 5, 2021 January 27, 2022 January 27, 2023 January 15, 2024 January 3, 2025	<b>Implemented</b>  <b>On-going</b> Subsequent reports due in future reporting years.
TB.1.NLB-SP	City of Thunder Bay	Non-legally binding policy.  Suggested to place buoys at the anchorage boundary that is within proximity to the intake. The City places three buoys to prevent anchorage.	Three buoys placed by private contractor. Removed every year at ice up.	<b>Implemented</b>  <b>On-going</b> Requires re-installation every spring.
TB.2.M-SP	City of Thunder Bay	Non-legally binding policy.  Provide SPA a copy of any updates to the	Emergency Management Plan updates provided March 17, 2016.	<b>Implemented</b>  <b>On-going</b> Copies of subsequent

Table 1: Lakehead Source Protection Plan Policy Implementation Status				
Policy #	Implementing Body	Policy Description	Implementation Completion Date	Status
		Spill Prevention and Contingency Plan that is created, and any actions that are taken under this Plan to protect the Bare Point Intakes.	Update to Standard Operating Procedure related to blue-green algae monitoring and reporting received on March 16, 2021.	updates are to be provided to the SPA.

## 5 Deficiencies in the Assessment Report

As required in Section 52 (1) part 2 of Ontario Regulation 287/07, the annual report is to include a summary of any steps taken during the reporting period to address any deficiencies in the information that was used in developing the Assessment Report set out in the Source Protection Plan.

General deficiencies noted in the Approved Assessment Report for the Lakehead Source Protection Area, dated May 2011 included:

- Intake Protection Zone 3 not delineated (noted as an action item for future Assessment Report updates)
- Lack of groundwater well data
- Lack of surface water intake data
- No data on groundwater/surface water interactions
- Lack of long-term weather data
- Lack of available depth, soil composition and water table depth data to delineate Highly Vulnerable Aquifers with any certainty
- Aquifer vulnerability was not assessed in a large part of the Lakehead Source Protection Area due to a lack of available data.

Over the reporting period, no steps were taken to address the deficiencies noted in the Approved Assessment Report. It is noted that the majority of deficiencies are related to a lack of overall historical base data. Additionally, it has been concluded that the acquisition of the data is not likely to result in revealing new threats or the development of new policies.

## 6 Other Items to Report

The presence of arsenic in the Rosslyn Village municipal drinking water system has been recently discussed at the SPC meetings. Arsenic is a naturally occurring metal found in many minerals and is not listed as one of the 22 prescribed drinking water threats under

the *Clean Water Act, 2006*. The Ontario Drinking Water Standards (ODWS) advise water is safe to consume when arsenic levels are reported to be less than 0.01 mg/L.

The Rosslyn Village municipal drinking water system consists of a North well and South well that provide water to 32 users. Slightly elevated levels of arsenic were detected in the North well in the fall of 2022 and the well was subsequently taken offline and water was being sourced solely from the South well. In March of 2023, arsenic above 0.01 mg/L was detected in the South well water; the Thunder Bay District Health Unit issued a Drinking Water Advisory to advise residents not to consume the water.

At the SPC meeting held on March 11, 2024, the Municipality of Oliver Paipoonge reported that they were working with the Ontario Clean Water Agency as well as the Walkerton Clean Water Centre regarding the presence of arsenic in the drinking water in Rosslyn Village. The Municipality was intending to install an arsenic treatment system in 2024. An update will be provided at the next SPC meeting (March 5, 2025).

## **7 Annual Report Distribution**

### **7.1 Source Protection Committee**

The SPC was provided a copy of the 2024 Annual Reports covering the period of January 1, 2024 to December 31, 2024 within their [March 5, 2025 SPC Meeting Agenda](#).

[The Report was discussed at the SPC Meeting held on March 5, 2025 and it was the consensus of the SPC that the Source Protection Plan had met its objectives for 2024.](#)

### **7.2 Source Protection Authority**

The SPA adopted the 2024 Annual Report on April 30, 2025 as per resolution [#03/25](#).

### **7.3 Director of the Ministry of Environment, Conservation and Parks**

The Lakehead Source Protection Plan Annual Report was provided to the Director of the MECP on [May 1, 2025](#).

### **7.4 Public**

The Lakehead Source Protection Plan Annual Report will be accessible by the public on the Lakehead Source Protection website [www.lakeheadca.com](http://www.lakeheadca.com).

## **8 Conclusion**

For the reporting period of January 1, 202 to December 31, 2024, all policies as outlined in the Lakehead Source Protection Plan have been implemented by the respective implementing bodies.

Actions completed by the Municipality of Oliver Paipoonge over the reporting period included: Completion of the annual report to the SPA. There were no Official Plan and Zoning By-law amendment applications within WHPA-A in 2024.

Future policy actions required by the Municipality of Oliver Paipoonge include: continuing to circulate all Official Plan and Zoning by-law *Planning Act* applications within WHPA-A to the SPA; continuing to prohibit prohibited land uses in WHPA-A; continue to locate salt and snow storage outside of WHPA-A; continue to minimize salt application in WHPA-A; continue to have the fact sheets related to DNAPLs and plane de-icer available for distribution; and prepare and submit annual reports to the SPA by February 1<sup>st</sup> of every reporting year.

Actions completed by the Thunder Bay District Health Unit over the reporting period included re-inspection of 13 septic systems and completion of the annual report to the SPA. The initial required septic system inspections were completed by the Thunder Bay District Health Unit as of June 2016 and were reinspected as required (i.e., within 5 years) in 2019, 2020, 2021 and have re-started the inspection cycle again, in 2024.

Future policy actions required by the Thunder Bay District Health Unit include: re-inspect all septic systems within WHPA-A every five years, with the next re-inspection planned for the fall of 2025, and prepare and submit annual reports to the SPA by February 1<sup>st</sup> of every reporting year.

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.

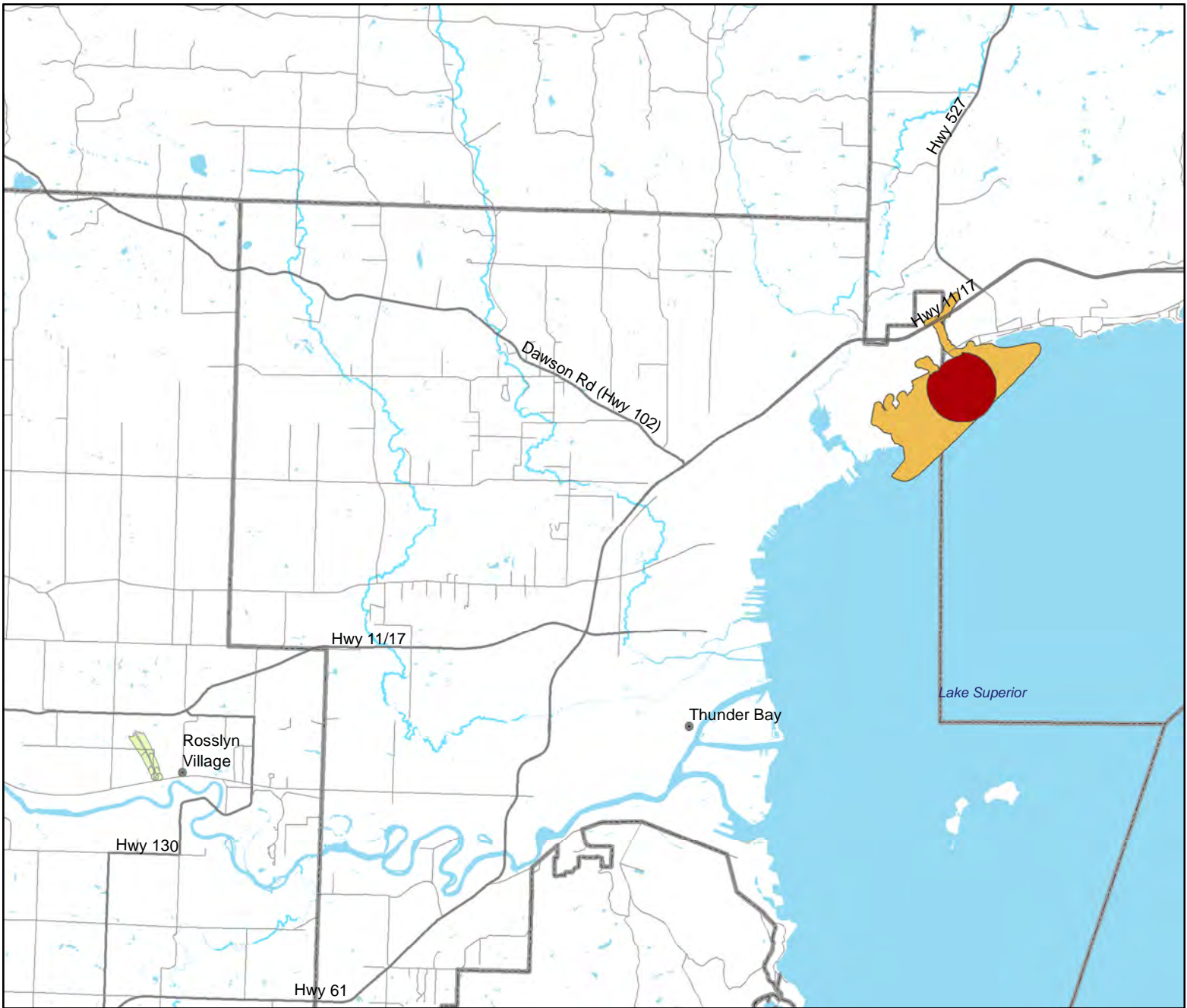
Future policy actions recommended to be completed by the City of Thunder Bay include: annually place three buoys marking the anchorage boundary in proximity of the intake; provide the SPA copies of any updates to the Spill Prevention and Contingency Plan and a summary of any actions taken to protect the Bare Point Intakes, as well as providing updates to the Standard Operating Procedure related to monitoring and reporting of blue-green algae blooms.

No actions were taken over the reporting period to address deficiencies noted in the Assessment Report, as the acquisition of the data is not considered to result in any new identified threat or required policies.

Lakehead's Section 36 Workplan submitted on April 25, 2023 was approved by the Minister of MECP in their letter dated October 24, 2023. Upon follow-up correspondence with MECP, it was confirmed that Lakehead's proposed updates within the Section 36 workplan are considered discretionary and can be undertaken as long as they are in scope and follow the technical rules. The SPC reviewed the Minister's order at the March 11,

2024 meeting and has resolved to proceed with the proposed updates as listed in the workplan pending available funding. Funding was received within the 2024-2027 Transfer Payment Agreement with MECP; the proposed Section 36 updates will be undertaken beginning in 2025.

The next annual report is due from the Lakehead SPA to the Director of the MECP on May 1, 2026 for the period of January 1, 2025 to December 31, 2025.



### Map M-1 Lakehead Source Protection Area

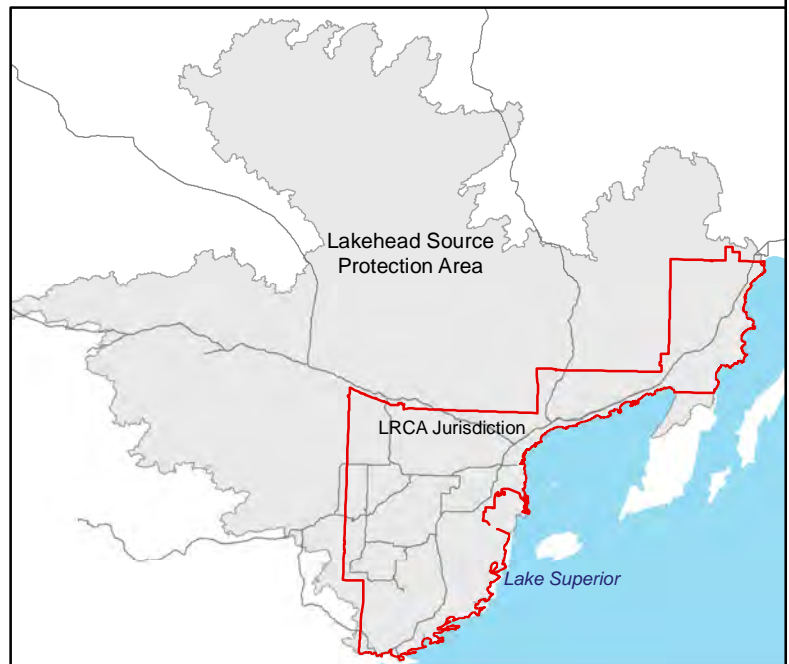
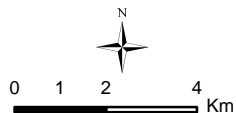
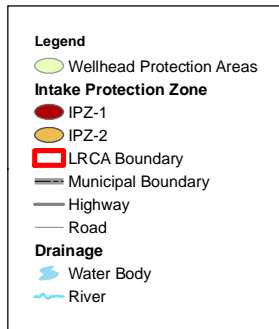
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of the Ontario Government



# 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 tenth Annual Progress Report completed by the Lakehead Source Protection Authority covering the period of January 1, 2024 to December 31, 2024.

## 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 2024, 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 2024, 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. The next round of re-inspections began in 2024 with 13 inspections completed.

Inspection results found that all of the systems are functioning as designed with no identified issues. 2024 inspections found the following: "Two sewage treatment systems inspected in 2023 and identified as systems of concern have been found to be in compliance with maintenance requirements for Advance Sewage Treatment systems as outlined in Section 8.9.2 of the Ontario Building Code. Confirmation of the maintenance status of one additional Advanced Sewage Treatment System remains to be determined through consultation with maintenance providers and the system owner in 2025. Currently there is no evidence of sewage system failure."

### 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.

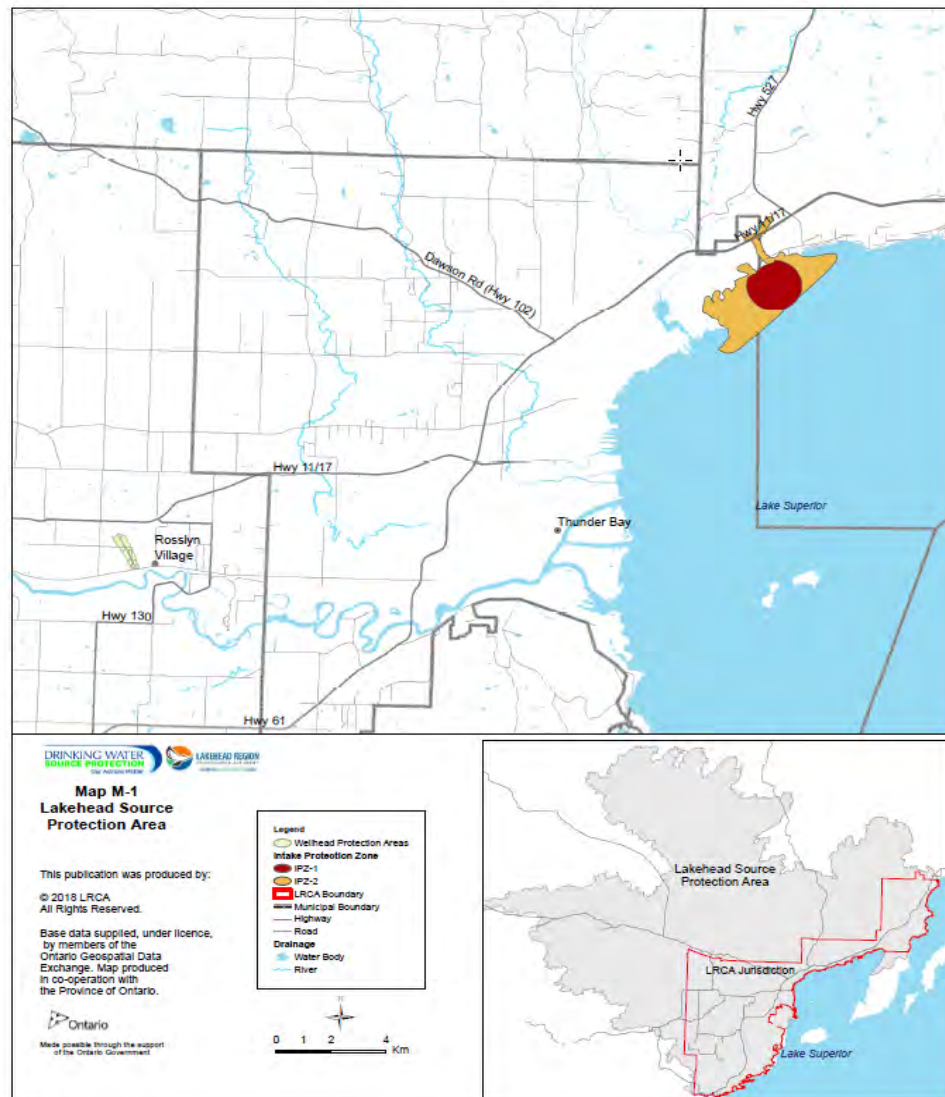
## 9. Science-based Assessment Reports: Work Plans

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-protection>





# Source Water Protection Annual Report

## 2024 - Supplemental Form

### SPR - Lakehead

Report Id	Completed	Question	
10	True	As applicable to your source protection region/area, indicate if all relevant implementing bodies submitted a status update/annual report to the source protection authority for the previous reporting year. If "No" is selected for any implementing body(ies), then please complete the Comments field below with details including the name of the specific implementing body along with an explanation, if available, for not submitting a status update/annual report as required by a monitoring policy. *NOTE: Where a listed implementing body(ies) is not applicable/relevant to your source protection region/area, then simply select "No" and explain that it is not an applicable implementing body in your source protection region/area in the Comments field text box.	
<b>Response</b>			<b>Answer</b>
Risk Management Official			No
Municipality			Yes
Conservation Authority			No
Local Health Unit			Yes
MECP - Waste Disposal Sites - Landfilling and Storage			No
MECP - Wastewater/Sewage Works			No
MECP - Pesticides			No
MECP - Hauled Sewage/Biosolids			No
MECP - Hauled Sewage/Biosolids Inspections			No
MECP - Permit to Take Water			No
MECP - Permit to Take Water Inspections			No
MECP - Municipal Residential Drinking Water Systems			No
MECP - Municipal Residential Drinking Water Systems Inspections			No
MECP - Source Protection			No
MECP - Waste Disposal Sites - Landfilling and Storage Inspections			No
MECP - Wastewater/Sewage Works Inspections			No
MECP - Conditions Sites			No
MECP - NMA - ASM and NASM Inspections			No
MECP - Environmental Monitoring			No
MECP - Fuel			No
MECP - Great Lakes			No



# Source Water Protection Annual Report

## 2024 - Supplemental Form

### SPR - Lakehead

MECP - Spills Response	No
MECP - Wells	No
OMAFRA	No
MNRF	No
MTO	No
MMAH	No
MGCS-TSSA	No
MENDM	No
Provincial Board/Commission	No
Federal Departments/Agencies/Commissions/Crown Corporations	No
Private Entity/Company	No
Association/Organization	No

**Comment:** Implementing bodies: Municipality of Oliver Paipoonge; Thunder Bay District Health Unit



# Source Water Protection Annual Report

## 2024 - Supplemental Form

### SPR - Lakehead

Report Id	Completed	Question	Category
20	True	Did the Source Protection Authority indicate the status of all threat policies as contained in their source protection plan? Please provide details in the response field text box in the Policy Interface for policies with a "No Progress Made" and "No information available/no response received" implementation status especially for legally-binding policies that address significant drinking water threat activities and for any moderate/low threat policies that use prescribed instruments and Planning Act tools.	Implementation status of source protection plan policies
<b>Answer:</b>		Yes	

**Comment:**

Report Id	Completed	Question	Category
21	True	Did the source protection authority(ies) confirm the accuracy of the implementation status of all threat policies as contained in their source protection plan and located on the policy interface database for the current reporting year?	Monitoring Policy Implementation
<b>Answer:</b>		Yes	

**Comment:**

Report Id	Completed	Question	Category
22	True	Did all source protection authority(ies) confirm that if a policy is significant and legally binding and has not been implemented by a person or a body by the implementation date specified in the policy, that there are written comments that include a description of the failure and the reasons for the failure as per O.Reg 287/07 s.52(1) 1.?	Monitoring Policy Implementation
<b>Answer:</b>		Yes	

**Comment:**



# Source Water Protection Annual Report

## 2024 - Supplemental Form

### SPR - Lakehead

Report Id	Completed	Question	Current Year	Cumulative Count
30	True	Number of risk management plans agreed to or established within the source protection area/region (to address existing and future threats) in this reporting period (i.e., annual total).	0	0
<b>Provincial Total</b>			0	0
<b>Comment:</b> n/a				

Report Id	Completed	Question	Current Year	Cumulative Count
31	True	Number of properties (i.e., parcels) with risk management plans agreed to or established in this reporting period.	0	0
<b>Provincial Total</b>			0	0
<b>Comment:</b> n/a				

Report Id	Completed	Question	Current Year	Cumulative Count
32	True	How many existing* significant drinking water threats have been managed through the established risk management plans in this reporting period (* meaning engaged in OR enumerated as existing significant threats)?	0	0
<b>Provincial Total</b>			0	0
<b>Comment:</b> n/a				



# Source Water Protection Annual Report

## 2024 - Supplemental Form

### SPR - Lakehead

Report Id	Completed	Question	Current Year	Cumulative Count
40	True	How many section 59 notices were issued in this reporting period for activities to which neither a prohibition (section 57) nor a risk management plan (section 58) policy applied, as per ss. 59(2)(a) of the Clean Water Act?	0	-1
<b>Provincial Total</b>			0	-1
<b>Comment:</b> n/a				

Report Id	Completed	Question	Current Year	Cumulative Count
41	True	How many section 59 notices were issued in this reporting period for activities to which a risk management plan (section 58) policy applied, as per ss. 59(2)(b) of the Clean Water Act?	0	0
<b>Provincial Total</b>			0	0
<b>Comment:</b> n/a				

Report Id	Completed	Question	Current Year	Cumulative Count
61	True	State the total number of inspections (including any follow-up site visits) that were carried out for activities (existing or future) that are prohibited under section 57 of the Clean Water Act in this reporting period. If no inspections were conducted in the previous calendar year, please explain.	0	0
<b>Provincial Total</b>			0	0
<b>Comment:</b> n/a				



# Source Water Protection Annual Report

## 2024 - Supplemental Form

### SPR - Lakehead

Report Id	Completed	Question	Current Year	Cumulative Count
62	True	Among the inspections conducted for section 57, how many showed that activities were taking place on the landscape even though they were prohibited (i.e., in contravention) under section 57 of the Clean Water Act in this reporting period?	0	0
<b>Provincial Total</b>			0	0
<b>Comment:</b> n/a				

Report Id	Completed	Question	Current Year	Cumulative Count
63	True	How many new properties were identified with s.57 prohibited activities during the reporting year (do not include properties established outside of this reporting year)?	0	0
<b>Provincial Total</b>			0	0
<b>Comment:</b>				

Report Id	Completed	Question	Current Year	Cumulative Count
70	True	How many existing significant drinking water threats have been prohibited as a result of section 57 prohibitions in this reporting period?	0	0
<b>Provincial Total</b>			0	0
<b>Comment:</b> n/a				



# Source Water Protection Annual Report

## 2024 - Supplemental Form

### SPR - Lakehead

Report Id	Completed	Question	Current Year	Cumulative Count
80	True	State the total number of inspections (including any follow-up site visits) that were carried out for activities that require a risk management plan under section 58 of the Clean Water Act in this reporting period. If no inspections were conducted in the previous calendar year, please explain.	0	0
<b>Provincial Total</b>			0	0
<b>Comment:</b> n/a				

Report Id	Completed	Question	Current Year	Cumulative Count
81	True	Among the inspections conducted for section 58, how many were in contravention with section 58 of the Clean Water Act in this reporting period (i.e., person engaging in a drinking water threat activity without a risk management plan as required by the source protection plan)?	0	0
<b>Provincial Total</b>			0	0
<b>Comment:</b> n/a				



# Source Water Protection Annual Report

## 2024 - Supplemental Form

### SPR - Lakehead

Report Id	Completed	Question	Current Year	Cumulative Count
82	True	Among the inspections for section 58, how many were in non-compliance with the specific contents of the risk management plan in this reporting period? (NOTE: Please only include those inspections that showed non-compliance with measures/conditions to manage the actual threat activity.)	0	0
<b>Provincial Total</b>			0	0
<b>Comment:</b> n/a				

Report Id	Completed	Question	Current Year	Cumulative Count
83	True	State the total number of notices issued where there were cases of contraventions and/or non-compliance found with section 57 in this reporting period.	0	0
<b>Provincial Total</b>			0	0
<b>Comment:</b> n/a				

Report Id	Completed	Question	Current Year	Cumulative Count
84	True	State the total number of notices issued where there were cases of contraventions and/or non-compliance found with section 58 in this reporting period.	0	0
<b>Provincial Total</b>			0	0
<b>Comment:</b> n/a				



# Source Water Protection Annual Report

## 2024 - Supplemental Form

### SPR - Lakehead

Report Id	Completed	Question	Current Year	Cumulative Count
85	True	State the total number of orders issued for contraventions and/or non-compliance found with section 57 in this reporting period.	0	0
<b>Provincial Total</b>			0	0
<b>Comment:</b> n/a				

Report Id	Completed	Question	Current Year	Cumulative Count
86	True	State the total number of orders issued for contraventions and/or non-compliance found with section 58 in this reporting period.	0	0
<b>Provincial Total</b>			0	0
<b>Comment:</b> n/a				



# Source Water Protection Annual Report

## 2024 - Supplemental Form

### SPR - Lakehead

**Report Id   Completed   Question**

220      True      List the municipality(ies) (including upper-, lower-, and single-tier) within the source protection region/area that are required to complete Official Plan and Zoning exercises to conform to the latest source protection plan, and indicate the status of those exercises for each applicable municipality. "Latest source protection plan" means the first approved plan or any subsequent approved plan update. \*NOTE: Applies to every municipality affected by land use planning or Part IV type policies. Where the official plan and/or zoning by-law status for any particular municipality needs to be changed/updated, then please do so by deleting the entry for that particular municipality by clicking on the red "-" (minus) sign and then re-select the municipality name from the drop down list of municipalities followed by selecting the updated status of the conformity exercise for the official plan and zoning by-law from the drop down list for that particular municipality. After doing so, please be sure to add the municipality as your response by clicking on the green plus sign.

Municipality	Official Plan	Zoning By Law
City of Thunder Bay	Completed	Completed
Municipality of Oliver Paipoonge	Completed	Completed

**Comment:**

**Report Id   Completed   Question**

240      True      State the number of source water protection signs installed on provincial highways in the source protection region/area in this reporting period.

**Current Year    Cumulative Count**

0                      0

**Provincial Total**

0                      0

**Comment:**



# Source Water Protection Annual Report

## 2024 - Supplemental Form

### SPR - Lakehead

Report Id	Completed	Question	Current Year	Cumulative Count
241	True	State the number of source water protection signs installed on municipal roads in the source protection region/area in this reporting period.	0	0
<b>Provincial Total</b>			0	0
<b>Comment:</b>				

Report Id	Completed	Question	Current Year	Cumulative Count
242	True	State the number of source water protection signs installed at other locations (if applicable) in the source protection region/area in this reporting period.	0	0
<b>Provincial Total</b>			0	0
<b>Comment:</b>				

Report Id	Completed	Question	Category
260	True	Current total overall number of on-site sewage systems that are assessed as significant drinking water threat activities and that are required to be inspected every five years in accordance with the Ontario Building Code.	Sewage System Inspections
<b>Answer:</b>	25		
<b>Comment:</b>			



# Source Water Protection Annual Report

## 2024 - Supplemental Form

### SPR - Lakehead

Report Id	Completed	Question	Category
261	True	Of those requiring inspections, how many inspections of on-site sewage systems were due to be carried out in this reporting period? If not applicable or no inspections of on-site sewage systems were due to be carried out in this reporting period because they were already inspected earlier within the inspection cycle or will be inspected in a future year within the cycle, then please enter "0" and state either explanation in the comment field.	Sewage System Inspections
<b>Answer:</b>		13	
<b>Comment:</b>		13 of the 25 on-site sewage systems were inspected in 2024.	

Report Id	Completed	Question	Current Year	Cumulative Count
262	True	How many on-site sewage system inspections were completed in this reporting period?	13	51
<b>Provincial Total</b>			13	51
<b>Comment:</b>				

Report Id	Completed	Question	Current Year	Cumulative Count
263	True	How many of the inspected on-site sewage systems required minor maintenance work in this reporting period?	0	0
<b>Provincial Total</b>			0	0
<b>Comment:</b>		Two sewage treatment systems inspected in 2023 and identified as systems of concern have been found to be in compliance with maintenance requirements for Advance Sewage Treatment systems as outlined in Section 8.9.2 of the Ontario Building Code. Confirmation of the maintenance status of one additional Advanced Sewage Treatment System remains to be determined through consultation with maintenance providers and the system owner in 2025. Currently there is no evidence of sewage system failure.		



# Source Water Protection Annual Report

## 2024 - Supplemental Form

### SPR - Lakehead

Report Id	Completed	Question	Current Year	Cumulative Count
264	True	How many of the inspected on-site sewage systems required major maintenance work (e.g., tank replacement, etc.) in this reporting period?	0	0
<b>Provincial Total</b>			0	0
<b>Comment:</b>				

Report Id	Completed	Question	Category
265	True	How many of the inspected on-site sewage systems required no maintenance work?	Sewage System Inspections
<b>Answer:</b>	13		
<b>Comment:</b>			
Two sewage treatment systems inspected in 2023 and identified as systems of concern have been found to be in compliance with maintenance requirements for Advance Sewage Treatment systems as outlined in Section 8.9.2 of the Ontario Building Code. Confirmation of the maintenance status of one additional Advanced Sewage Treatment System remains to be determined through consultation with maintenance providers and the system owner in 2025. Currently there is no evidence of sewage system failure.			



# Source Water Protection Annual Report

## 2024 - Supplemental Form

### SPR - Lakehead

Report Id	Completed	Question	
266	True	For those on-site sewage systems that were not inspected in this reporting period but should have been inspected, and are now out of compliance, please indicate why they were not all inspected from among the reasons below. [Note: For municipalities that have not yet initiated the mandatory on-site sewage system inspection program, please see the next reportable to provide your response if this is the case].	
		<b>Response</b>	<b>Answer</b>
		landowner refused entry, compliance order being sought	No
		inspections delayed/postponed due to COVID-19 restrictions	No
		vulnerable area changed and on-site sewage system(s) no longer a threat activity	No
		other. Please specify in the comment box below.	Yes
<p><b>Comment:</b> Confirmation of the maintenance status of one additional Advanced Sewage Treatment System remains to be determined through consultation with maintenance providers and the system owner in 2025. Currently there is no evidence of sewage system failure.</p>			



# Source Water Protection Annual Report

## 2024 - Supplemental Form

### SPR - Lakehead

**Report Id    Completed    Question**

270            True            Complete the information below regarding environmental monitoring of drinking water issues identified in accordance with the Technical Rules within your source protection region/area. Begin by selecting the drinking water system, the specific well or intake, the drinking water issue, the delineation status, and the observation of the concentration. [OPTIONAL]: In the comments field, describe any actions or behavioural changes that might be contributing to reported changes in the concentration of the issue or parameter. Where the drinking water issue, well or intake, delineation status, or observation of any previously listed drinking water system needs to be changed/updated, then please do so by deleting the entry for that particular drinking water system by clicking on the red minus sign on the right side of the entry and then re-select the drinking water system from the dropdown list of drinking water systems followed by selecting the associated well or intake, the drinking water issue, its delineation status, and the observation from the dropdown list for that particular drinking water system. After doing so, please be sure to add the drinking water system as your response by clicking on the green plus sign on the right side of the entry. If this reportable is not applicable to your source protection region/area, please indicate as such by choosing "No system with issues," "Not Known/Available," "No issue," "Not applicable," and "No observation," respectively, under the drop down menu options under each of the categories of this reportable. Do not leave blank.

<b>DWIS Number</b>	<b>DWIS Name</b>	<b>Issue</b>	<b>ICA Delinated</b>	<b>Observation</b>
	-- No system with issues --	-- No Issue --	--Not Applicable --	-- No Observation --

**Comment:** It is noted that the Rossllyn Village drinking water system was issued a community drinking water advisory in March 2023 due to concentrations of arsenic above the drinking water standard being present. The Municipality of Oliver Paipoonge is working with the Ontario Clean Water Agency and the Walkerton Clean Water Centre regarding the issue; installation of an arsenic treatment system is planned/being undertaken. An update will be provided at the March 5, 2025 SPC meeting.

**Report Id    Completed    Question**

280            True            How many notices about transport pathways (meaning a condition of land resulting from human activity (e.g., pits and quarries, improperly abandoned wells, geothermal system, etc.) that increases the vulnerability of a raw water supply of a drinking water system) did the source protection authority receive from municipalities in this reporting period (as per O. Reg. 287/07, ss. 27(3))?

**Current Year    Cumulative Count**

0                    0

**Provincial Total**

0                    0

**Comment:**



# Source Water Protection Annual Report

## 2024 - Supplemental Form

### SPR - Lakehead

Report Id	Completed	Question	Response	Answer
281	True	Where transport pathway notices were received, indicate the action(s) taken by the source protection region/area in response to receiving these notices:		
			Provided information to municipalities about changes in vulnerability	No
			Provided notice to Source Protection Committee for information	No
			Situation continues to be monitored	No
<b>Comment:</b> N/A				



# Source Water Protection Annual Report

## 2024 - Supplemental Form

### SPR - Lakehead

Report Id	Completed	Question	
300	True	[OPTIONAL]: If and where there are successful examples for each of the following initiatives in the source protection region/area (including from local municipalities, residents and businesses) that occurred in this reporting period that the authority wishes to highlight, then please indicate in the Comments field below. In your comments, please include details for each of the selected topics. Please limit the descriptions provided (e.g., one example for each topic or more could be included when the source protection authority feels they are exceptional/quite successful).	
<b>Response</b>			<b>Answer</b>
Education and Outreach (in description include details, if available, on type and percentage of target population reached, outcome(s) achieved, etc.)			No
Incentives (in description include details, if available, on outcome(s) achieved, how widely available was the incentive, etc.)			No
Stewardship Programs			No
Best Management Practices			No
Pilot Programs			No
Research			No
Specify Action (e.g., road salt management, municipal by-laws, legislative or regulatory amendments, mapping, review of fuel codes, new airport facility design standards to manage runoff of chemicals from de-icing of aircraft, instrumentation, etc.)			No
Climate Change (e.g., data collection)			No
Spill prevention/spill contingency/emergency response plan updates			No
Transport pathways			No
Water quantity			No
Great Lakes			No
Other policies (i.e., strategic action, etc.)			No
<b>Comment:</b>			



# Source Water Protection Annual Report

## 2024 - Supplemental Form

### SPR - Lakehead

**Report Id    Completed    Question**

305            True

Complete the table below with the count data for each significant drinking water threat activity/local threat activity/condition being engaged in (i.e., enumerated as 'existing' significant threats) at the time of source protection plan approval or approval of amendments that include new / changing protection zones. Please use the best available information/desktop exercises, reports from Risk Management Officials, and other implementing bodies to provide the counts below. For convenience, the count data from the previous reporting year have been copied over, but please be sure to review, edit, and confirm the counts for accuracy in the table below. [CWA Section 46(1)(a)]

The running tally consists of the formula: A+B-C-D where:

A = Number of significant drinking water threats estimated when the source protection plan was first approved

B = Number of additional significant drinking water threats counted after the first source protection plan approval (not part of the original estimate)

C = Number of significant drinking water threats included in A that were determined through field verification to no longer exist because: (i) the threat was not actually engaged in at a particular location after all OR (ii) it was no longer engaged in (e.g., land may still have an agricultural operation but owner is no longer applying pesticides for their own reasons)

D = Number of significant drinking water threats addressed because a policy is implemented. (It is understood that multiple policies/policy tools may address a single threat on the landscape. If any one policy is implemented and directed at that single threat it is considered addressed.)

In the comments box below summarize any remaining significant threats needing to be addressed for each source protection authority and what actions will be taken to eliminate those threats. If all threats have been addressed for each source protection authority(ies) write "All known significant threats have been addressed" in the comments box. Note that this summary response will be posted under the objective summary section 2 of the report.

ThreatId	Threat	A	B	C	D
1	The establishment, operation or maintenance of a waste disposal site within the meaning of Part V of the Environmental Protection Act.	0	0	0	0
2	The establishment, operation or maintenance of a system that collects, stores, transmits, treats or disposes of sewage.	25	0	0	25
3	The application of agricultural source material to land.	1	0	1	0
4	The storage of agricultural source material.	4	0	4	0



# Source Water Protection Annual Report

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### SPR - Lakehead

5	The management of agricultural source material.	0	0	0	0
6	The application of non-agricultural source material to land.	0	0	0	0
7	The handling and storage of non-agricultural source material.	0	0	0	0
8	The application of commercial fertilizer to land.	0	0	0	0
9	The handling and storage of commercial fertilizer.	0	0	0	0
10	The application of pesticide to land.	0	0	0	0
11	The handling and storage of pesticide.	0	0	0	0
12	The application of road salt.	0	0	0	0
13	The handling and storage of road salt.	0	0	0	0
14	The storage of snow.	0	0	0	0
15	The handling and storage of fuel.	0	0	0	0
16	The handling and storage of a dense non-aqueous phase liquid.	0	0	0	0
17	The handling and storage of an organic solvent.	0	0	0	0
18	The management of runoff that contains chemicals used in the de-icing of aircraft.	0	0	0	0
19	Water taking from an aquifer without returning the water to the same aquifer or surface water body	0	0	0	0
20	Reducing recharge of an aquifer	0	0	0	0
21	The use of land as livestock grazing or pasturing land, an outdoor confinement area or a farm-animal yard. O. Reg. 385/08, s. 3.	2	0	2	0
22	The establishment and operation of a liquid hydrocarbon pipeline	0	0	0	0
1000	Water conditioning salts from water softeners	0	0	0	0



# Source Water Protection Annual Report

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### SPR - Lakehead

1001	Transportation of specified substances along corridors	0	0	0	0		
1002	Spill of Tritium from Nuclear Generating Station	0	0	0	0		
1003	Handling storage of fuel	0	0	0	0		
1004	Transportation, storage and handling of diesel/gasoline	0	0	0	0		
1005	Transportation of Agricultural and Non-Agricultural Source Materials	0	0	0	0		
1006	International Shipping Channel within IPZ2	0	0	0	0		
1007	Transportation of hazardous substances along transportation corridors	0	0	0	0		
1008	Transportation or Storage and Handling of Fuel in an Event Based Area	0	0	0	0		
1009	Waterfowl	0	0	0	0		
1010	Local condition	0	0	0	0		
<b>25</b>	<b>25</b>	<b>Totals:</b>		<b>32</b>	<b>0</b>	<b>7</b>	<b>25</b>

Comment:

MECP Calc (C+D)/(A+B): 100 %



# Source Water Protection Annual Report

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### SPR - Lakehead

Report Id	Completed	Question	Category
310	True	Please provide comments below to explain the overall progress made in addressing existing significant threat activities and include the percentage of overall progress made within the comments provided. The percentage of overall progress made in addressing local threats and conditions that are taking place on the landscape is determined by taking the total number in column D (i.e., significant drinking water threat addressed because policy is implemented) from the table above (reportable 305) adding it to C (i.e., significant threats determined through field verification to no longer be threats) and dividing it by the number that is derived by adding the total numbers in columns A and B. In other words, overall progress made = $(C+D)/(A + B)$ .	Addressing existing enumerated threats
<b>Answer:</b>		All policies as outlined in the Lakehead SPP have been implemented by the respective Implementing Bodies. The Municipality of Oliver Paipooonge has an approved 2018 Official Plan, which references the SPP Policies.	
		The remaining significant drinking water threats are associated with residential sewage systems. The percentage of the overall progress made in addressing these remaining existing significant drinking water threats is 100%.	
<b>Comment:</b>			

Report Id	Completed	Question	Category
320	True	If applicable, where the 2013/2017 technical rules were used for the assessment report update/amendment, provide a summary of steps taken to further assess or implement the plans of work described in technical rule 30.1: Water Budget Tier 3 not included in your original assessment report(s).	Assessment report information gaps
<b>Answer:</b>		N/A	
<b>Comment:</b>			



# Source Water Protection Annual Report

## 2024 - Supplemental Form

### SPR - Lakehead

Report Id	Completed	Question	Category
321	True	If applicable, where the 2013/2017 technical rules were used for the assessment report update/amendment, provide a summary of steps taken to further assess or implement the plans of work described in technical rule 50.1: GUDI for WHPA-E or F not included in your original assessment report(s).	Assessment report information gaps
<b>Answer:</b>		N/A	
<b>Comment:</b>			

Report Id	Completed	Question	Category
322	True	If applicable, where the 2013/2017 technical rules were used for the assessment report update/amendment, provide a summary of steps taken to further assess or implement the plans of work described in technical rule 116: Issue Contributing Area not included in your original assessment report(s).	Assessment report information gaps
<b>Answer:</b>		Not applicable.	
<b>Comment:</b>			

Report Id	Completed	Question	Category
323	True	[OPTIONAL] If applicable where the 2021 technical rules were used for the assessment report update/amendment, provide a summary of steps taken to further assess or implement the plans of work described in technical rule 30.1: Water Budget Tier 3 not included in your original assessment report(s).	Assessment report information gaps
<b>Answer:</b>		N/A	
<b>Comment:</b>			



# Source Water Protection Annual Report

## 2024 - Supplemental Form

### SPR - Lakehead

Report Id	Completed	Question	Category
324	True	[OPTIONAL] Where the 2021 technical rules were used for the assessment report update/amendment, provide a summary of steps taken to further assess or implement the plans of work described in technical rule 50.1: GUDI for WHPA-E or F not included in your original assessment report(s).	Assessment report information gaps
<b>Answer:</b>		N/A	
<b>Comment:</b>			

Report Id	Completed	Question	Category
330	True	Does the source protection authority have any other item(s) on which it wishes to report? If so, please explain.	Other reporting items
<b>Answer:</b>		The Rosslyn Village municipal drinking water system in the Municipality of Oliver-Paipoonge has been under a drinking water advisory, issued by the Thunder Bay District Health Unit, since March 2023 due to the presence of slightly elevated levels of arsenic in the drinking water. The arsenic is believed to be naturally occurring. The municipality is working with the Ontario Clean Water Agency and the Walkerton Clean Water Centre, and is intending to install an arsenic treatment system in 2024. An update will be provided at the March 5, 2025 SPC meeting.	
<b>Comment:</b>			



# Source Water Protection Annual Report

## 2024 - Supplemental Form

### SPR - Lakehead

Report Id	Completed	Question	
350	True	In the opinion of the Source Protection Committee, to what extent have the objectives of the source protection plan been achieved in this reporting period?	
<b>Response</b>			<b>Answer</b>
Progressing Well - The majority of the policies from the approved original or an amended source protection plan have been implemented and/or are progressing well			Yes
Satisfactory - Some of the policies from the approved original or an amended source protection plan have been implemented and/or are progressing well			No
Limited Progress made - A few of the policies from the approved original or an amended source protection plan have been implemented and/or are progressing well			No
<b>Comment:</b>			



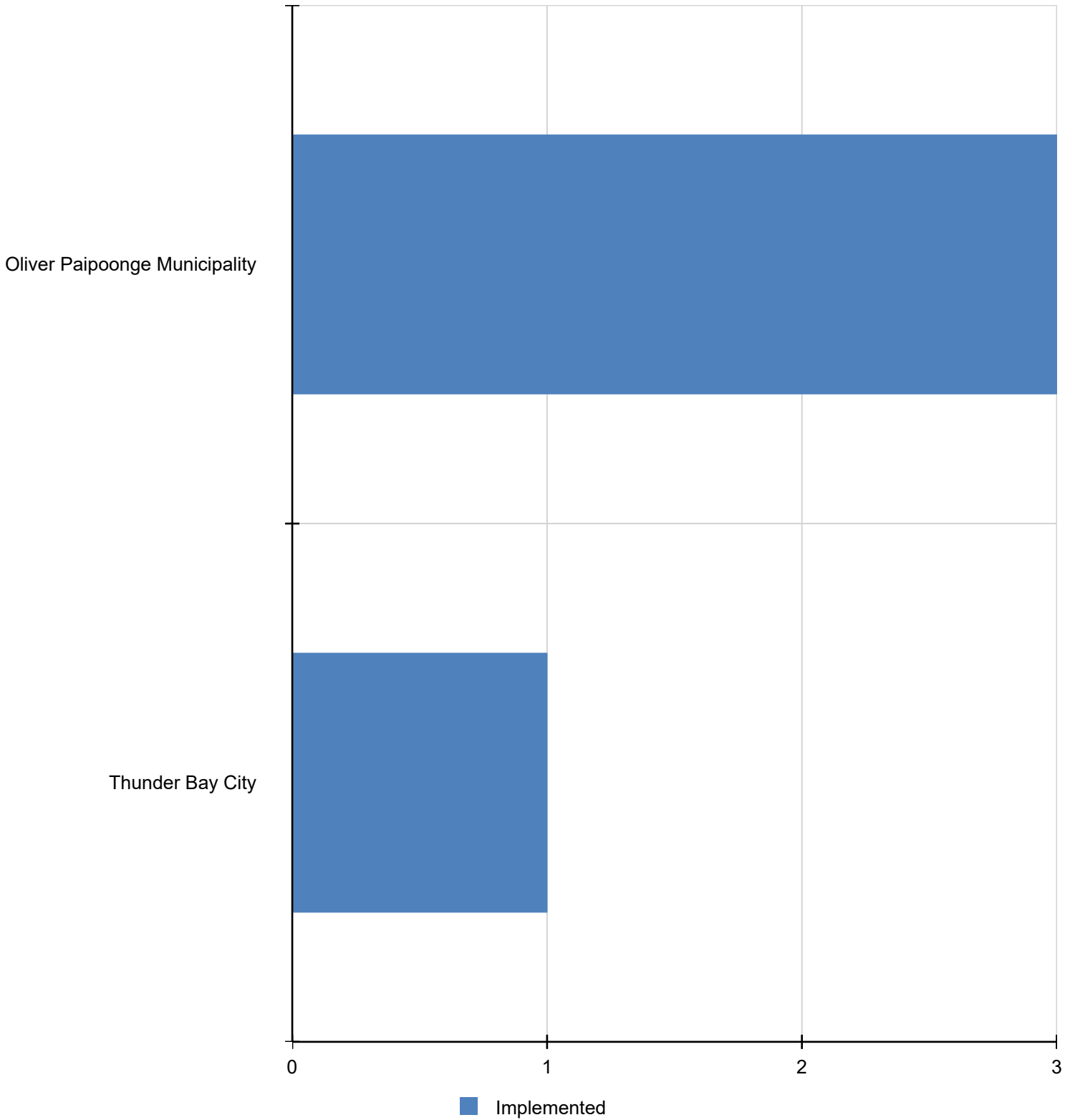
# Source Water Protection Annual Report

## 2024 - Supplemental Form

### SPR - Lakehead

Report Id	Completed	Question	Category
351	True	Please provide comments to explain how the Source Protection Committee arrived at its opinion. Include a summary of any discussions that might have been had amongst the Source Protection Committee members, especially where no consensus was reached.	Achievement of source protection plan objectives
<b>Answer:</b>		The SPC received and discussed the draft report at their March 5, 2025 SPC Meeting, at which time they concluded the Plan was meeting its objectives. No additional comments were received from the SPC members.	
<b>Comment:</b>			

Implementation Status



<b>Implementing Body</b>	Municipality	<b>Threat Type</b>	Future
<b>Policy Id</b>	RV.1.CW-PA	<b>Agency</b>	Oliver Paipoonge Municipality of
<b>Legal Effect</b>	Conform with		
<b>Risk</b>	Significant		
<b>Policy Tool</b>	Land Use Planning Approaches		
<b>Status</b>	Implemented		
<b>Comment</b>			

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<b>Implementing Body</b>	Municipality	<b>Threat Type</b>	Future & Existing
<b>Policy Id</b>	RV.3.CW-SP	<b>Agency</b>	Oliver Paipoonge Municipality of
<b>Legal Effect</b>	Conform with		
<b>Risk</b>	Significant		
<b>Policy Tool</b>	Specify Actions to be taken to implement plan or achieve its objectives		
<b>Status</b>	Implemented		
<b>Comment</b>			

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<b>Implementing Body</b>	Municipality	<b>Threat Type</b>	Future & Existing
<b>Policy Id</b>	RV.5.CW-EO	<b>Agency</b>	Oliver Paipoonge Municipality of
<b>Legal Effect</b>	Conform with		
<b>Risk</b>	Significant		
<b>Policy Tool</b>	Education / Outreach		
<b>Status</b>	Implemented		
<b>Comment</b>			

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<b>Implementing Body</b>	Municipality	<b>Threat Type</b>	Future & Existing
<b>Policy Id</b>	TB.1.NLB-SP	<b>Agency</b>	Thunder Bay City of
<b>Legal Effect</b>	Strategic		
<b>Risk</b>	Non-specific		
<b>Policy Tool</b>	Specify Actions to be taken to implement plan or achieve its objectives		
<b>Status</b>	Implemented		
<b>Comment</b>			

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***Lakehead Source Water Protection Update***

<b>MEETING DATE</b>	April 30, 2025
<b>STAFF NAME</b>	Melissa Hughson
<b>POSITION</b>	Program Manager of the Lakehead Drinking Water Source Protection Program / Watershed Manager

Drinking Water Source Protection Funding

The 2024-2027 transfer payment agreement (TPA) for the drinking water source protection program was finalized in July 2024 with the Ministry of the Environment, Conservation and Parks (MECP) Source Protection Branch. The TPA in the amount of \$226,007.48 will fund the Lakehead Source Protection Authority/LRCAs efforts to facilitate the drinking water source protection program within our area of jurisdiction for the next three years. This is the first time since the program was initiated in 2011 that three-year agreements have been implemented. The 2024-2025 work plan for Lakehead’s program will involve updating the Source Protection Plan policies with minor administrative updates as outlined in the Section 36 Workplan that was approved by MECP in October of 2023. In addition to updating the policies, a comprehensive review of the Lakehead Source Protection Plan will be undertaken to bring the document up to date (see below for further details regarding Section 36 updates).

Advanced Treatment Septic Systems in WHPA-A without Maintenance Agreements

The TBDHU completed three septic system inspections in January 2024 and reported that all three advanced treatment septic systems were non-compliant with the Manufacturer Annual Inspection and Maintenance requirements outlined in the Ontario Building Code. At the time of inspection, it could not be confirmed if the systems were functioning as originally intended. The TBDHU advised owners accordingly to enter into agreements and ensure required inspection and maintenance is completed. TBDHU reported that two of the three systems have been resolved in 2024 with one requiring follow-up investigations in 2025. TBDHU is working with the manufacturers and property owners to work towards compliance. Thirteen (13) septic inspections occurred in 2024. There has been no evidence of sewage system failure within WHPA-A.

Arsenic – Rosslyn Village Drinking Water System

The Rosslyn Village Drinking Water system continues to be on a Drinking Water Advisory due to slightly elevated levels of arsenic being present. The drinking water system consists of a North well and South well that provide water to 32 users. Slightly elevated levels of arsenic were detected in the North well in the fall of 2022 and the well was subsequently taken offline and

water was being sourced solely from the South well. In March of 2023, arsenic above 0.01 mg/L was detected in the South well water; the Thunder Bay District Health Unit issued a Drinking Water Advisory to advise residents not to consume the water. The arsenic source is naturally occurring due to the geology of the area.

The Municipality of Oliver Paipoonge is in the process of installing an arsenic treatment system and is working with the Ontario Clean Water Agency as well as the Walkerton Clean Water Centre to resolve the arsenic issue. It is noted that the Ontario Drinking Water Standard (ODWS) for arsenic changed from 0.025 mg/L to 0.010 mg/L (this change happened on January 1, 2018).

### Section 36 Updates

Lakehead’s Section 36 Workplan was submitted to MECP on April 25, 2023 in accordance with the Minister’s Order dated May 7, 2018. The workplan proposed minor updates to the source protection plan (SPP) policies summarized as follows:

<b>Proposed Update No.</b>	<b>Description of Proposed Update</b>	<b>Implementing Body/Municipality</b>	<b>Applicable Document</b>
1	Update of Policy RV.1.CW-PA in SPP to remove references to the size of prohibited Waste Disposal Sites.	Municipality of Oliver Paipoonge	SPP
2	Review of Policy RV.5.CW-EO in SPP to assess the need to distribute Education and Outreach materials in the future. Remove EO materials related to agriculture.	Municipality of Oliver Paipoonge and TBDHU	SPP
3	Update of Policy RV.1.CW-PA in SPP to ensure future updates of Official Plan and Zoning continue to reflect applicable policies.	Municipality of Oliver Paipoonge	SPP
4	Update of Policy RV.3.CW-SP in SPP to require updates and/or reviews of Salt Management Plan.	Municipality of Oliver Paipoonge	SPP
5	Update of Policy TB.1.NLB-SP in SPP to require the placement of a minimum of three buoys at the surface water Intake.	City of Thunder Bay	SPP

A Minister's Order dated October 24, 2023, was received by the SPA indicating that Lakehead's Section 36 Workplan was approved. The order and follow up correspondence stated that mandatory updates include ensuring that the assessment report and source protection plan are updated according to the most recent version of the technical rules and planned changes to drinking water systems. Any other items in a section 36 workplan that are not listed as mandatory in the section 36 order are considered discretionary and can be undertaken as long as they are in scope and follow the technical rules.

There are no required changes to Lakehead's assessment report and source protection plan resulting from updates to the technical rules. The SPA will complete the updates to the policies in the source protection plan as well as a comprehensive administrative review and update of the source protection plan itself within the coming year.