



Municipality of Northern Bruce Peninsula Staff Report

Report Number: PW 26-06
Subject: 2025 Lion's Head Drinking Water System Summary Report
Date: February 23, 2026
Submitted By: Troy Cameron, Public Works Manager

Recommendation

That Council receives Public Works Department Report PW 26-06 titled 2025 Lion's Head Drinking Water System Summary Report; and for information; and

That Council directs staff to notify the Ontario Clean Water Agency that Council has accepted the Schedule 22 Summary Report and that the resolution of acceptance is posted on the Municipal website.

Background

The 2025 Lion's Head Drinking Water Summary Report was completed by the Ontario Clean Water Agency (OCWA) on behalf of the Municipality of Northern Bruce Peninsula in accordance with Schedule 22 of Ontario Regulation 170/03. The Summary Report is required to be completed no later than March 31 of each year and to be given to members of Council.

Analysis

As per Section 12 of Ontario Regulation 170/03, the Summary Report is required to be made available free of charge to any member of the public for inspection during the regular business hours of the Municipal Office.

Conclusion

A notice will be placed in the Bruce Peninsula Press indicating that the Summary Reports are available for viewing on the Municipal Website.

Consultation

- Ontario Clean Water Agency (OCWA)

Financial and Resource Implications

- N/A.

Considerations – Council Strategic Goals

Use the check mark to select which Council Strategic Goal your report relates to. If none are applicable, do not check anything.

- Infrastructure and Maintenance
- Sustainable Tourism and Environment Conservation
- Enhance Community Engagement and Services
- Economic Diversification and Development
- Governance and Transparency

Attachments

- Appendix A – Lion’s Head Drinking Water System 2025 Cover Letter
- Appendix B – Lion’s Head Drinking Water System 2025 Summary Report

Approval

Respectfully Submitted:

Troy R. Cameron

Troy Cameron
Public Works Manager

Approved By:

Peggy Van Mierlo-West

Peggy Van Mierlo-West
Chief Administrative Officer

February 18, 2026

Peggy Van Mierlo-West, CAO
Municipality of Northern Bruce Peninsula
56 Lindsay Rd 5
Lion's Head, ON N0H 1W0

RE: 2025 Summary Report (O. Reg. 170/03, Schedule 22) – Municipality of Northern Bruce Peninsula

Please see attached for the following 2025 Summary Report(s) prepared by the Ontario Clean Water Agency (OCWA) on behalf of the Municipality of Northern Bruce Peninsula:

- Lion's Head Drinking Water System (Large Municipal Residential)

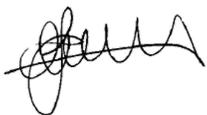
This report was prepared in accordance with [Schedule 22](#) of Ontario Regulation 170/03. It is required that a Summary Report for the previous calendar year be prepared no later than March 31st of each year and be given to the members of the Municipal Council. Please ensure this distribution. The purpose of the Schedule 22 Summary Reports is to enable the Owner to assess the capability of drinking water system(s) to meet existing and planned uses. In general, the Schedule 22 Summary Report(s) consist of the following information:

- A list of the requirements of the Act, the regulations, the system's approval, drinking water works permit (DWWP), municipal drinking water licence (MDWL), and any orders applicable to the system that were not met (e.g. non-compliances) the duration and corrective actions.
- A summary of quantities and flowrates of water supplied, including monthly averages and maximum daily flows as well as a comparison to the rated capacity and flowrates approved in the system's approval, DWWP or MDWL.

[Section 12](#) of O. Reg. 170/03 requires that the Summary Report is available for inspection, at no charge, by any member of the public during regular business hours. It is recommended that the report be made available for inspection at the office of the municipality or at a location that is convenient for the users of the water system.

Should you require further clarification on the information found within the Summary Report(s), please feel free to contact me.

Sincerely,



Leo-Paul Frigault
Senior Operations Manager
Ontario Clean Water Agency, Georgian Highlands Region

2025 SECTION 22 SUMMARY REPORT

LION'S HEAD
DRINKING WATER SYSTEM



For the period of:
JANUARY 1, 2025 TO DECEMBER 31, 2025

Prepared for the Township of Northern Bruce Peninsula by the Ontario Clean Water Agency

This report was prepared in accordance with the requirements of [O.Reg 170/03, Schedule 22, Summary Reports for Municipalities](#) for the following system and reporting period:

Drinking-Water System Number:	220002672
Drinking-Water System Name:	Lion’s Head Drinking Water System
Drinking-Water System Owner:	Municipality of Northern Bruce Peninsula
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	January 1, 2025 – December 31, 2025

1. Issue(s) of Non-Compliance

A Ministry of Environment, Conservation and Parks (MECP) Drinking Water System Inspection was conducted on January 14, 2026 for the period covering January 6, 2025 to January 14, 2026. The Inspection Report has not yet been issued.

The following is a summary of non-compliances noted in the MECP Inspection Report, as well as the duration and the measures that were taken to correct the non-compliance. If any self-reported non-compliances were included in the inspection report, they will be noted in Table 1.

Table 1. Non-Compliances and Corrective Actions noted in the 2025/2026 MECP Inspection Report

Non-Compliance(s)	Duration	Required Actions & Corrective Actions
TBD	TBD	TBD

Table 2 summarizes incidents interpreted by the Operating Authority as instances where any requirements of the Act, the regulations, the system’s approval, the drinking water works permit (DWWP), the municipal drinking water licence (MDWL), and any orders applicable were not met. The Operating Authority reported the following incidents to the MECP and confirmation of whether the incidents are considered non-compliances is noted in the MECP Inspection Report and included in Table 1.

Table 2. Self-Reported Incidents and Corrective Actions for the Reporting Period

Incident	Duration	Corrective Actions
N/A	N/A	N/A

For information on any Adverse Water Quality Incident(s) that may have occurred during the reporting period, please refer to the Lion’s Head Drinking Water System Annual Report (Section 11).

2. Assessment of Flowrates and Quantity of Water Supplied

The following tables summarize the quantities and flow rates of water supplied during the reporting period, including monthly averages and maximum daily flows as well as a comparison to the rated capacity and flow rates approved in the system's approval, DWWP or MDWL.

As required by the MDWL, regulatory flow measuring devices are checked/verified and where necessary, calibrated. These checks/verifications/calibrations are performed annually by a third party to ensure the flow measuring devices are within acceptable deviation limits.

2.1 Treated Water

Municipal Drinking Water License (MDWL):	250-101 (Issue Number: 5)
Allowable Rated Capacity:	1,351 m ³ /day
Allowable Flowrate into Treatment System:	N/A

As per the MDWL, the maximum daily volume of treated water that flows from the treatment subsystem to the distribution system shall not exceed the listed rated capacity. However, the MDWL allows a system to be operated temporarily at a maximum daily volume and/or a maximum flowrate above the values set out in the MDWL for the purposes of fighting a large fire or for the maintenance of the drinking water system.

Table 3. Treated Water Annual and Monthly Average and Maximum Flows with Comparison to Rated Capacity Total Volume for 2025

Treated Water Flow					
Timeframe	Average Flow (m ³ /day)	Percent of Rated Capacity	Maximum Flow (m ³ /day)	Percent of Rated Capacity	Total Volume (m ³)
January	434	32.1%	483	35.8%	13,448
February	427	31.6%	471	34.9%	11,967
March	432	32.0%	475	35.2%	13,394
April	426	31.6%	460	34.0%	12,793
May	447	33.1%	485	35.9%	13,861
June	479	35.5%	547	40.5%	14,375
July	485	35.9%	516	38.2%	15,038
August	591	43.8%	705	52.2%	18,325
September	505	37.4%	545	40.4%	15,160
October	495	36.6%	516	38.2%	15,341
November	551	40.8%	570	42.2%	16,528
December	557	41.2%	588	43.5%	17,271
2025	486	36.0%	705	52.2%	177,501

A review of flow information for the reporting period indicates that the drinking water system operated within the rated capacity specified in the MDWL, for the maximum treated volume of treated water that flows from the treatment subsystem to the distribution system.

Table 4. Treated Water Annual and Monthly Average and Maximum Flowrates for 2025

Treated Water Flowrate		
Timeframe	Average Flowrate (L/sec)	Maximum Flowrate (L/sec)
January	5.16	13.27
February	5.08	18.03 ^{4a}
March	5.15	18.46 ^{4a}
April	5.07	38.70 ^{4a}
May	5.32	42.59 ^{4b}
June	5.70	39.43 ^{4c}
July	5.77	22.94 ^{4a}
August	7.03	13.22
September	6.01	12.17
October	5.89	11.44
November	6.54	12.29
December	6.62	13.88
2025	5.78	42.59^{4b}

^{4a}Elevated flows due to flushing of high lift pumps on the following days: February 6, March 5, March 8, April 8, and July 10, 2025.

^{4b}Elevated flows for 3 minutes on May 19, 2025.

^{4c}Elevated flows due to flushing hydrants on June 11 and June 12, 2025.

The applicable MDWL for the reporting period did not list a maximum allowable limit for the flowrate of water that flows into a treatment subsystem. A summary of flowrates of water that flows into the treatment system can be found in Table 6.

2.2 Raw Water

Permit to Take Water Number:	0002-BDCRL5
Allowable Maximum Raw Water Volume – Isthmus Bay:	1,831.5 m ³ /day
Allowable Maximum Raw Water Flowrate – Isthmus Bay:	1,272 L/min (21.2 L/sec)

As per the PTTW, water shall only be taken from the specified source(s) and at the rates and amounts taken as specified in the permit.

Table 5. Raw Water (Isthmus Bay) Monthly Average, Maximum Flow and Total Volume for 2025

Raw Water Flow – Isthmus Bay					
Timeframe	Average Flow (m ³ /day)	Percent of Allowable Volume	Maximum Flow (m ³ /day)	Percent of Allowable Volume	Total Volume (m ³)
January	466	25.4%	584	31.9%	14,449
February	456	24.9%	520	28.4%	12,780
March	464	25.3%	527	28.8%	14,389
April	454	24.8%	487	26.6%	13,631
May	479	26.1%	619	33.8%	14,842
June	523	28.5%	640	34.9%	15,677
July	540	29.5%	628	34.3%	16,742
August	671	36.6%	810	44.3%	20,797
September	652	35.6%	1,091 ^{5a}	59.6%	19,552
October	558	30.5%	661	36.1%	17,292
November	648	35.4%	829	45.3%	19,428
December	624	34.1%	725	39.6%	19,353
2025	545	29.7%	1,091^{5a}	59.6%	198,932

^{5a}Flow meter replaced on September 9 which may have skewed maximum daily flow.

A review of flow information for the reporting period indicates that the system operated within the PTTW's maximum allowable daily raw water volume.

Table 6. Raw Water (Isthmus Bay) Annual and Monthly Average and Maximum Flowrates for 2025

Raw Water (Isthmus Bay) Flowrate		
Timeframe	Average Flowrate (L/sec)	Maximum Flowrate (L/sec)
January	5.48	14.85
February	5.36	17.41
March	5.46	16.92
April	5.34	15.97
May	5.63	16.83
June	6.14	19.80
July	6.35	20.50
August	7.53	20.25
September	7.32	20.65
October	6.50	20.38
November	7.60	18.04
December	7.34	78.00 ^{6a}
2025	6.34	78.00^{6a}

^{6a}Elevated flowrate for 15 seconds, no exceedance of PTTW.

A review of flow information for the reporting period indicates that the system operated within the PTTW's maximum allowable raw water flowrate.