February 17th, 2026

The Mayor and Members of Council
City of Elliot Lake
Municipal Office
45 Hillside Drive North
Elliot Lake, Ontario P5A 1X5

ATTENTION: Mayor and Members of Council

RE: Elliot Lake Water Treatment Plant Summary Report For Municipalities: Municipal Large Residential

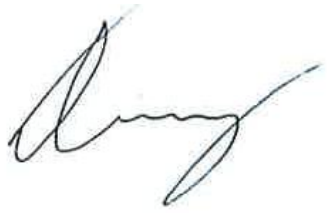
Your Worship Mayor Wannan and Members of Council:

Please find attached, the 2025 Summary Report for the Elliot Lake Water Treatment Plant. This report has been prepared in accordance with the guidelines set out in Schedule 22 of the Safe Drinking Water Act, 2002 (Ontario Regulation 170/03).

The report covers the period from January 1, 2025 to December 31, 2025.

Please direct any questions or concerns to the undersigned.

Yours truly,



Taylor Irving
Manager of Environmental Services

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Elliot Lake Water Treatment Plant
2025 Summary Report

1.0 Purpose

The purpose of the Water Treatment Plant Summary Report is to provide information to Council and Residents of the City of Elliot Lake, as well as satisfying the regulatory requirements of the Safe Drinking Water Act (SDWA) including the Drinking Water Quality Management System (DWQMS)

This report is prepared in accordance with Schedule 22 of Regulation 170/03 of Ontario's Safe Drinking Water Act and ensures that no later than March 31st a summary report is prepared and presented to Municipal Council and covers the reporting period from January 1, 2025 to December 31, 2025.

2.0 System Description

The City of Elliot Lake Water Treatment Plant is classified as a Class 2 direct filtration plant.
Water is drawn from Elliot Lake through an intake structure, located in approximately 12.2 m (40 ft.) of water and is gravity fed through a 295 m long marine pipeline to the low lift pumping station wet well. The water is then pumped to the main facility at 200 Spine Road. The raw water then passes through a flow meter and into reactor/mixing tanks. At this point Polyaluminum Chloride (PAC) is added to the process to aid in the production of floc. The water then continues into the hydraulic spiral flow flocculation tanks and afterwards passes through three rectangular filters with dual media (anthracite/sand). The filtered water is collected in an underdrain system and enters a 2,300 m3 Clearwell (storage reservoir) on site. Chlorine is added to the treated water as it leaves the filters to achieve required disinfection. Fluoride is also added at this point. Fluoride does not play a role in the treatment process, but rather acts as an agent in the prevention of tooth decay in young children. High Lift pumps pump the now treated water from the Clearwell through a flow meter and into the distribution system. This treated water makes its way to consumers' homes, either directly or from the standpipe storage facilities. Lime is added to the water as it leaves the plant to aid in the prevention of corrosion in the distribution system. The lime is also used for pH and alkalinity adjustment.

The City of Elliot Lake has highly trained staff that specializes in operating and maintaining a water treatment plant, distribution system, a booster station and two elevated water storage tanks (standpipes) with a total storage volume of approximately 9400 m^3. Water is supplied to customers by approximately 130km of water main ranging from 150mm to 600mm pipe mainly through ductile iron and cast iron and areas with PVC piping. There are approximately 428 fire hydrants located within the system. As well there are 199 metered accounts and approximately 6500 service connections.

3.0 Compliance Reporting

The owner and operating authority shall ensure that any person authorized to carry out work on or to operate any aspect of the drinking water system has been informed of the SDWA, and all applicable regulations made in accordance with that act, as well as any other licenses or permits.

3.1 Elliot Lake Drinking Water System

Section 18 of the Safe Drinking Water Act requires the system operator to report adverse test results or conditions immediately after the result is obtained or situation identified. A test result is considered adverse when the sample being tested fails to meet the prescribed drinking water standards. Limits for all parameters being tested under the Acts and Regulations are identified under the various Regulations associated with the Safe Drinking Water Act, 2002.

The Elliot Lake Drinking Water System annual inspection for the 2025 reporting period was performed by the Ministry of Environment, Conservation and Parks (M.E.C.P.) on January 15th, 2026 and the report is attached.

All chemicals and materials used in the operation of the drinking water system that came into contact with water met all applicable standards set by American Water Works Association (AWWA) and the American National Standard Institute (ANSI) safety criteria standards NSF/60, NSF/61 and NSF/372.

Flow measurement equipment required to record the volume of water taken from the intake and effluent discharged to the distribution system are verified monthly and calibrated on an annual basis by a third party.

On-Stream analyzers such as chlorine, pH and turbidity are verified, cleaned, maintained and calibrated monthly along with calibrated by a third party on an annual basis.

3.2 Elliot Lake Distribution System

The Elliot Lake Distribution System was maintained to ensure quality drinking water to consumers. The following operations were done in 2025:

- There were 13 instances of adverse water quality incidents in 2025 where reports were made to the Public Health Unit and Spills Action Centre in accordance with Section 18 of the Safe Drinking Water Act. **(See Table 4 adverse water reports)**
    - **a)** 6 for watermain repairs,
    - **b)** 5 for microbiological sample results,
    - **c)** 1 regarding a fluoride analyzer reading,
    - **d)** 1 regarding the installation of a new auto flusher

- There were 7 documented water quality complaints ranging from taste and odour to discoloration and pressure issues.

3.3 Permit to Take Water Summary

The Elliot Lake Water Treatment Plant was issued a Permit to Take Water November 24, 2015 and it expired on December 1st, 2025. This permit allows the maximum of 19,722 liters per minute and 18,184,000 liters per day. There were no exceedances to report for the 2025 summary report. The renewal forms were submitted on August 28th, 2025 and Permit to Take Water No. 8323-DQ2MBQ was issued on January 16th, 2026 and set to expire on December 1st, 2035. This permit is a continuation of the previously identified terms, conditions and limits.

3.4 Municipal Drinking Water License Summary

The City of Elliot Lake Municipal Drinking Water License was issued on March 25th 2022 and expires on March 24th 2027. This license allows a maximum daily volume of treated water that flows from the treatment plant to the subsystem to not exceed 28,400m^3/day. This maximum rated capacity was not exceeded during the 2025 reporting period.

3.5 Lead Sampling

Lead sampling was conducted as required by O. Reg 170/03 Schedule 15.1 on April 16th, June 25th, and September 15th at eight (8) locations in the distribution system. The results were not in exceedance.

4.0 Regulatory Inspection

The Elliot Lake Drinking Water System annual inspection for the 2025 reporting period was performed by the Ministry of Environment, Conservation and Parks (M.E.C.P.) on January 15th, 2026 and the report is attached.

5.0 Identified Terms and Conditions

The Elliot Lake Water Treatment Plant meets the requirement of the Ontario "Drinking Water Standards." Disinfection of treated water is achieved as per Ministry Procedure B13-3. Required CT was continuously monitored and was always met, ensuring that appropriate levels of disinfection were attained.
Backwash water discharge suspended solids sampling was conducted monthly. The annual average was **13.9 mg/L**, which is below the required **25 mg/L** annual average.
Backwash water discharge Total Chlorine Residual sampling was also conducted monthly. The annual average was **0.011 mg/L**, which is within the required standard of **0.02 mg/L**.

6.0 Drinking Water Quality Management System (DWQMS)

The Quality Management System (QMS) consists of an Operational Plan that defines and documents the various policies and procedures with respect to water quality management which were established to meet the Province of Ontario standards as identified within the Safe Drinking Water Act. The Internal Audit and Managerial Review were all completed in 2025 as per the requirements outlined in the City of Elliot Lakes Operational Plan.

A third party surveillance audit was performed by SAI Global June 3rd, 2025. All elements conformed to the DWQMS 2.0 standards.

6.1 Operations and Maintenance

Review and Provision of Infrastructure:

Element 14 of the DWQMS 2.0 requires that an annual review of the Drinking Water System's infrastructure is completed. This pertains to the maintenance necessary in order to operate and maintain the City of Elliot Lake Drinking Water system. This review involves information from a ten year Capital Plan that was revised in 2016, that prioritized road projects by the condition of the infrastructure below them such as water mains. Element 14 requires that the Operating Authority carry out the review and provide a report to the owner. This ensures that the owner is regularly informed of infrastructure needs and can plan accordingly.

Element 15 of the DWQMS maintains a program of the maintenance, rehabilitation and renewal for the infrastructure. The effectiveness of the maintenance system is relayed to the owner in a summary report under Section 22 of Ont. Reg 170/03. Monitoring the effectiveness of the maintenance program is achieved by periodically reviewing the maintenance program and ensuring its effectiveness.

7.0 Documentation

Contingency plans, Standard Operating Procedures, the Operational Plan and the Drinking Water Quality Management Standard documents which provide guidance in the event of emergencies, upset conditions and breakdowns are located in the office at the Elliot Lake Water Treatment Plant. Detailed drawings of the facility are centrally located in the control room.

8.0 Conclusion

The Elliot Lake Water Treatment Plant has sufficient capacity to treat and distribute projected flows for the foreseeable future. Ongoing plant improvement will likely be necessary during the 2026 planning period due to structure and equipment age. There were no instances of treated water flows exceeding the rated capacity in the Municipal Drinking Water License.

The Elliot Lake Water Treatment Plant was operated in compliance within the conditions of the Municipal Drinking Water License (MDWL), Permit to Take Water (PTTW), Drinking Water Works Permit (DWWP) as well as other regulations.

Table 1: Treated Water Annual Quantities and Flow Rates
Maximum 28,400 (m^3) per day

MONTH	Minimum Flow / Day (M^3)	Maximum Flow / Day (M^3)	Average Flow / Day (M^3)	Instantaneous Peak Flow (L/s)	Total Flow (M^3)
January	4,861.7	7,476.8	6,104.8	151.79	189,250.3
February	4,539.1	7,162.6	6,110.9	158.98	171,105.2
March	4,846.1	7,320.0	6,009.52	154.75	186,295.0
April	4,957.5	6,511.1	5,783.23	151.69	173,496.9
May	5,044.4	7,193.58	6,000.31	153.97	186,009.5
June	4,788.5	9,104.9	6,743.3	158.88	202,298.4
July	5,190.27	8,593.92	6,748.56	239.47	209,205.2
August	5,430.69	8,815.66	6,758.19	177.61	209,504.0
September	5,314.33	7,728.55	6,371.95	157.71	191,158.52
October	5,272.77	6,934.25	6,163.74	147.84	191,076.0
November	5,125.42	7,314.72	6,148.62	149.71	184,458.6
December	5,523.52	7,354.24	6,506.51	157.14	201,701.9
Minimum	4,539.1	6,511.1	5,783.23	147.84	171,105.2
Maximum	5,523.52	9,104.9	7,758.19	239.47	209,504.0
Average	5,074.53	7,625.86	6,287.47	163.3	191,296.6
				Total Flow M^3 2025	**2,295,559.52**

Comparison of Maximum Daily Flow to Rated Capacity 2025 for Treated Water

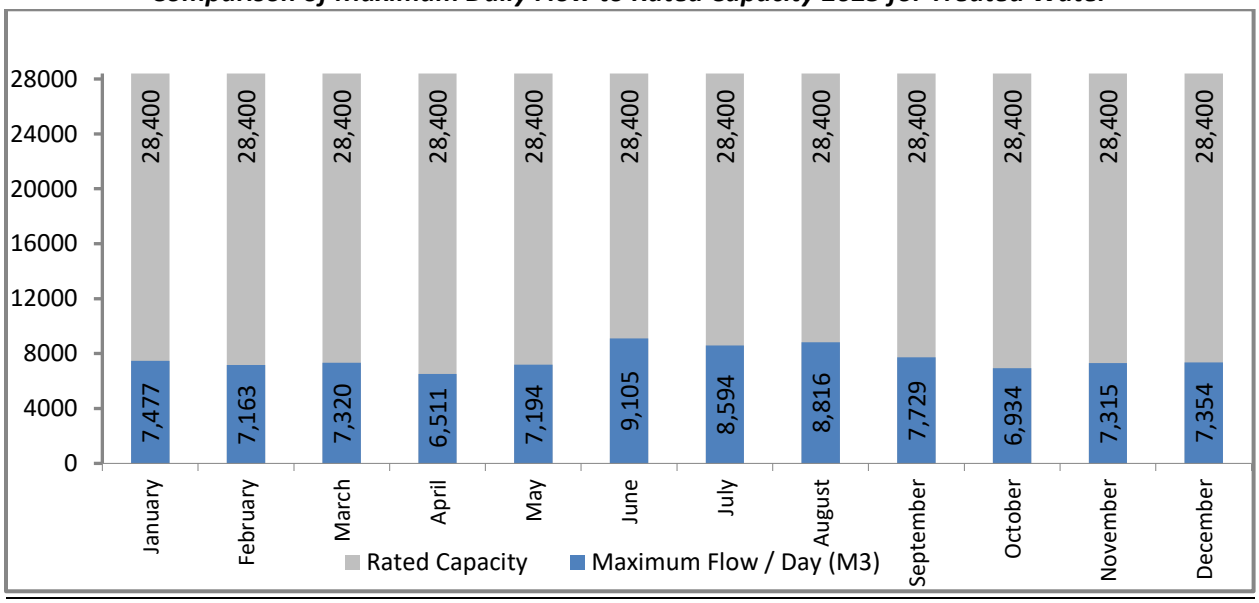

Table 2: Raw Water Annual Quantities and Flow Rates
Maximum 18,184 (m^3) per day

MONTH	Minimum Flow / Day (M^3)	Maximum Flow / Day (M^3)	Average Flow / Day (M^3)	Instantaneous Peak flow (L/s)	Total Flow (M^3)
January	5,804.8	8,780.9	7,125.7	254.42	220,895.5
February	5,680.7	8,298.0	7,140.6	271.63	199,937.2
March	5,645.3	8,521.2	6,994.36	264.13	216,825.3
April	5,830.8	7,578.8	6,741.61	253.03	202,248.2
May	6,027.0	8,607.67	7,085.09	221.91	219,637.7
June	5,583.3	10,448.9	7,737.8	256.22	232,134.4
July	6,060.63	9,622.93	7,711.82	249.23	239,066.5
August	6,362.46	9,863.62	7,698.43	218.4	238,651.2
September	6,085.25	8,849.64	7,287.12	467.66	218,613.66
October	6,091.44	7,995.25	7,105.71	250.11	220,277.2
November	6,212.06	8,359.46	7,162.03	247.5	214,860.88
December	6,145.75	8,209.54	7,436.14	268.69	230,520.5

Minimum	5,583.3	7,578.8	6,741.61	218.4	199,937.2
Maximum	6,362.46	10,448.9	7,737.8	249.26	239,066.5
Average	5,960.8	8,761.3	7,268.87	268.58	221,139.02
				Total Flow M^3 2025	**2,653,668.24**

Comparison of Maximum Daily Flow to Rated Capacity 2025 for Raw Water

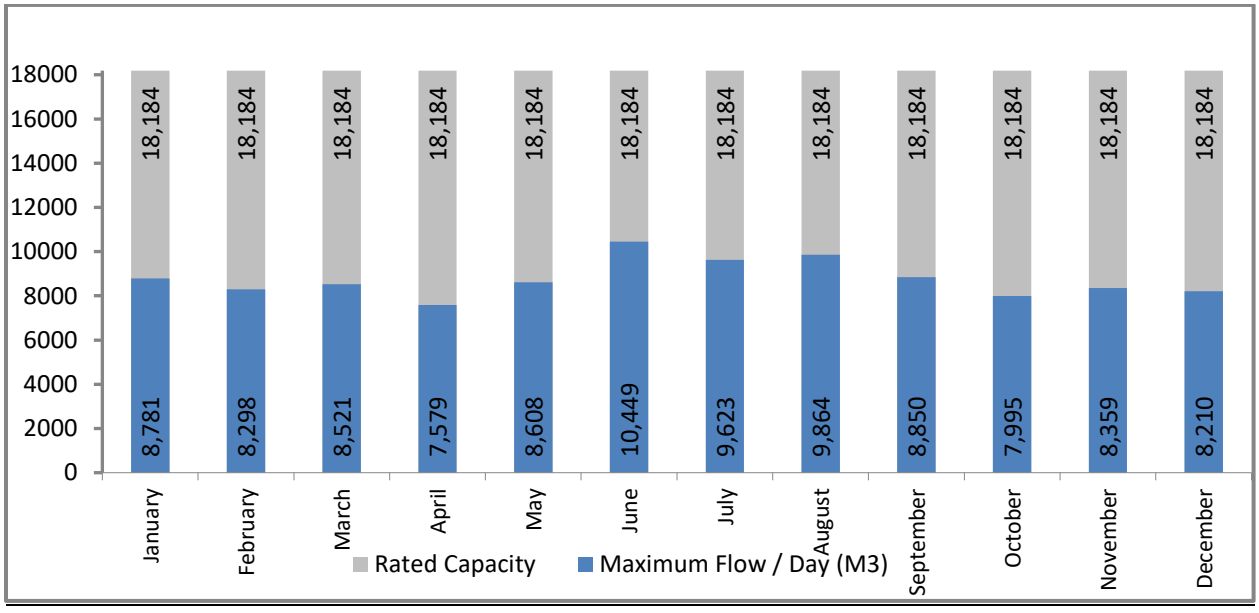

Table 3: Filter Efficiencies
Minimum of 95 %

MONTH	Filter #1 Efficiency (%)	Filter #2 Efficiency (%)	Filter #3 Efficiency (%)
January	99.72	100.00	99.97
February	99.84	100.00	99.96
March	99.83	100.00	99.82
April	99.93	100.00	99.96
May	99.96	100.00	99.62
June	99.96	100.00	99.61
July	99.97	100.00	99.22
August	99.98	100.00	99.60
September	99.95	100.00	99.88
October	99.87	100.00	99.99
November	99.93	100.00	99.96
December	99.82	100.00	99.99
Minimum	99.72	100.00	99.22
Maximum	99.96	100.00	99.99
Average	99.93	100.00	99.80

Table 4: Adverse Water Quality Incidents

Incident Date	Parameter	Results	Unit of Measure	Corrective Action	Corrective Action Date
January 24th, 2025	Watermain Repair	Pressure Loss	PSI	Boil Water Advisory – Flush and Two Sets of Samples	**January 31st, 2025**
January 26th, 2025	Watermain Repair	Pressure Loss	PSI	Boil Water Advisory – Flush and Two Sets of Samples	**January 31st, 2025**
March 3rd, 2025	Watermain Repair	Pressure Loss	PSI	Boil Water Advisory – Flush and Two Sets of Samples	**March 7th, 2025**
April 1st, 2025	Watermain Repair	Pressure Loss	PSI	Boil Water Advisory – Flush and Two Sets of Samples	**April 7th, 2025**
April 8th, 2025	Deviation from Critical Control Limit	High Fluoride reading	mg/L	Analyzer Repaired and fluoride reintroduced	**October 7th, 2025**
May 23rd, 2025	Sample Result Microbiological	Total Coliform 1	CFU/100mL	Boil Water Advisory – Two Sets of Samples	**May 30th, 2025**
June 11th, 2025	Sample Result Microbiological	Total Coliform 1	CFU/100mL	Boil Water Advisory – Two Sets of Samples	**June 16th, 2025**
June 26th, 2025	Sample Result Microbiological	Total Coliform 21	CFU/100mL	Boil Water Advisory - Two Sets of Samples	**July 7th, 2025**
June 28th, 2025	Resample Result Microbiological	Total Coliform 8	CFU/100mL	Boil Water Advisory – Two Sets of Samples	**July 7th, 2025**
July 29th, 2025	Watermain Repair	Pressure Loss	PSI	Boil Water Advisory – Flush and Two Sets of Samples	**August 8th, 2025**
August 18th, 2025	Watermain Repair	Pressure Loss	PSI	Boil Water Advisory – Flush and Two Sets of Samples	**August 22nd, 2025**
August 28th, 2025	Sample Result Microbiological	Total Coliform 1	CFU/100mL	Boil Water Advisory – Two Sets of Samples	**September 5th, 2025**
October 21st, 2025	Watermain Auto Flusher Installation	Pressure Loss	PSI	Boil Water Advisory – Flush and Two Sets of Samples	**October 30th, 2025**