



Municipality of Temagami

Council Presentation

August 14, 2025

Eric Nielson, Regional Hub Manager
Bryce Logan, Senior Operations Manager

Discussion Items

- OCWA team
- 2024 highlights
- Preventative Maintenance and CMMS
- MECP inspections
- Legislation and Regulations
- Value for Money
- Review of costs
- Expansion of available services
- Ecofixe
- Municipal savings working with OCWA



OCWA - Cluster team

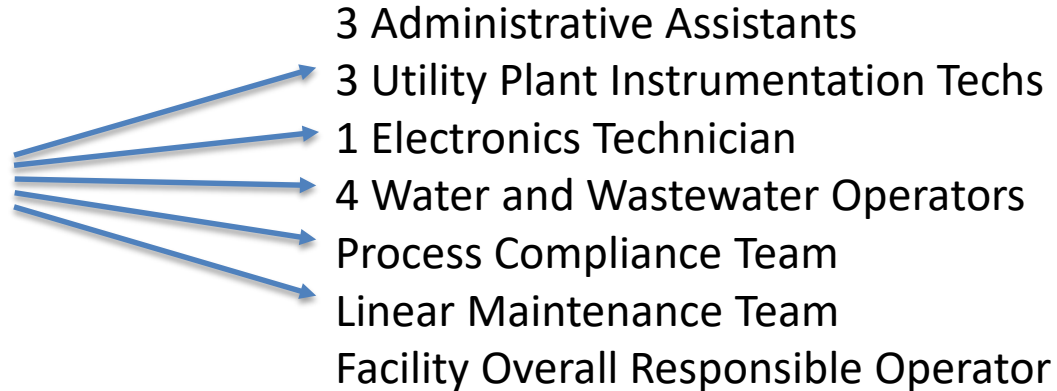
Eric Nielson – Regional Manager

Lee Ann Curran - Regional Business Manager

Vic Legault – Capital Manager

Jeremy Galda – Safety Process Compliance Manager

Sylvie Lemieux – Business Development Manager



Bryce Logan – Senior Operations Manager

OCWA - Team behind the Team

Corporate and Regional Assistance

- PPD – project planning and delivery
- Corporate Procurement
- Corporate Compliance and Safety
- POTS – process optimization and technical services
- ITAD – innovation, technology and alternative delivery
- Linear services
 - Valve turning, leak detection, Sewer Camera Inspections and Capital delivery
- Instrumentation, electrical, mechanical



2024 Upgrades

Temagami North WTP

- Chlorine analyzer CL-17
- Raw water flow control valve
- Compliance Reporting package
- Raw water pH and Temperature probes
- New UPS and isolation card
- Chemical feed panels
- Filter level control floats
- Replaced Faulty HMI



2024 Upgrades

Temagami South WTP

- Compliance Reporting Package
- Chemical pump rebuilds and line replacement
- pH probes
- Waste pit pump replacement
- Raw water flow meter
- Chemical feed panels



2024 Upgrades

Temagami North and South Lagoons

- Alarm dialer's
- Dissolved oxygen probe
- Portable DO sensor
- Data Logger



Protecting Your Assets

- 637 maintenance work orders including:
- 49 capital work orders
- 400 Preventative Maintenance work orders
- 148 calibrations
- 40 correctives and call backs



Maximo CMMS



MECP Inspections

- 2021 Temagami North = 97.06 %
- 2021 Temagami South = 100 %
- 2022 Temagami North = 96.75 %
- 2022 Temagami South = 100 %
- 2023 Temagami North = 91.8 %
- 2023 Temagami South = 72.3 %
 - Continuous monitoring of filter effluent fault
 - Trending flat-line
- 2024 Temagami North = 96.45 %
- 2024 Temagami South = 100 %



Legislative and Regulatory Compliance and Training

Federal, Provincial, Health&Safety

- O.Reg 387/04 – Water taking and transfer
- O.Reg 242/05 – Compliance and Enforcement
- O.Reg 243/07 – Schools, Nurseries, daycares
- O.Reg 170/03 – Drinking water systems
- O.Reg 128 & 129/04 – Water operator certificates
- DWQMS – drinking water quality management standard
- PTTW – permit to take water
- O.Reg 319/03 – Small systems
- ECA – Environmental Compliance Approvals
- CLI/ECA – Consolidated Linear Infrastructure
- Drinking Water Licencing and Permitting
- WSER – Wastewater systems effluent regulations (Federal)
- Chemical handling
- Working alone
- OHSA adherence
- Confined space training
- Lock and Tag
- Zero energy
- SDS – safety Data Sheets
- TDG – transportation of dangerous goods
- Working at heights
- Continual Education Unit training to maintain operator certification

Value for Money

2024 Cost Breakdown

Temagami 2024 Costing Breakdown

	Cost	Balance	
Revenue	\$465,431.03	\$465,431.03	
Payroll	\$246,889.51	\$218,541.52	direct labour and allocations
Chemicals	\$47,055.66	\$171,485.86	annual fluctuation (costs and purchase dates)
Natural Gas	\$14,329.08	\$157,156.78	Temagami pays \$5047/month for both
Electricity	\$59,568.45	\$97,588.33	
Building Mntc	\$2,169.68	\$95,418.65	smaller items - we do not charge
Process Mntc	\$4,339.48	\$91,079.17	smaller lab equipment, buffers, etc
Vehicle costs	\$26,601.12	\$64,478.05	
Health and Safety	\$2,517.28	\$61,960.77	
Lab analysis	\$27,889.66	\$34,071.11	
Rentals	\$1,608.64	\$32,462.47	
Insurance	\$9,798.97	\$22,663.50	
Communication	\$4,515.36	\$18,148.14	
Computer supplies	\$198.34	\$17,949.80	
Administrative	\$6,654.73	\$11,295.07	shipping, fleet interest, job advertizing
Training	\$7,208.67	\$4,086.40	
Margin	\$4,086.40	1%	

Lab supplies = \$2231 in 2020 to \$4658 in 2024

Chemical Cost increases

Sodium Hypochlorite tote	\$26.26 in 2021
	\$45.60 in 2025
Barrel of Alum	\$164.81 in 2021
	\$223.60 in 2024
Soda Ash skid	\$1253 in 2021
	\$1875 in 2024
Ferric sulfate tote	\$1125 in 2021
	\$2637 in 2025

Value for Money

- Oversight Efforts for safety and legal compliance
 - Operations management = 12 hours / week
 - Operations, minimal 2080 hours
 - Instrumentation, ministry compliance calibrations min 100/Qtr
 - Flushing and valve turning. 160 hours semi annual
 - Compliance and Safety, 40 hours per year
 - On-call. 2nd operator on call for Grinder Pumps on week ends
 - MECP inspection = 25 hours (per site)
 - prep, data gathering, inspection, responses, review
 - DWQMS maintenance (updates, renewals) = 25 hours
 - Meetings and Training = 75 hours
 - Monthly Compliance Data review = 10 hours
 - Internal audit = 20 hours. External audit = 40 hours
 - Quarterly reports = 14 hours
 - Annual reports = 40 hours
 - The ability to reach out OCWA wide for operations and equipment in an emergency.

3,850 hours per
year minimum

Value for Money

Additional Services – No charge

- Trouble shooting Chalet UV System alarms no charge unless after hours
- Troubleshooting WTP valves and pump issues no charge
- Meeting with Contractors over UV building deficiencies
- Reporting AWQI's and abnormal sampling (PCT time)
- Confined space work, only charge for 2 operators when 3 are required.
- Bulk sample shipments to the lab (savings 100.00 per week)
- A portion of labour hours charged for leak detecting and isolation, in the distribution.
- Regional access to Specialized Linear equipment, and charge by the hour when in use.
- Collecting data for Surveys, Audits, and Funding applications upon the request of the municipality no charge for Operations time.
- Creating disinfection packages for capital projects to meet Regulatory requirements.



Ecofix solution

History



The Town of Temagami reached out to OCWA back in 2019 to discuss the capacity issues for the Temagami North Lagoon. The Town indicated they were looking for ways to expand/develop to add within the Temagami North Lagoon. The Municipality was looking to more business opportunities and also develop residential properties. Management reached out to OCWA Engineering to explore funding options for the municipality and at that time, Ecofix was an upcoming trial product that was looking for a host municipality.

- We received municipal support for the trial at the Temagami North Lagoon. In hopes to alleviate some capacity issues
- The installation was completed end of July 2022.
- Sampling results throughout the trial were completed and monitored by OCWA and based on these results, the ECA amendment is underway.
- We have seen improvement for loadings to the environment, and we are waiting for the new blower to be approved by MECP to satisfy ECA requirements.
- There was NO cost to the Municipality for material, sampling or labor throughout the project and Council approved the technology to be kept in service early 2024.

ECOFIX Solution

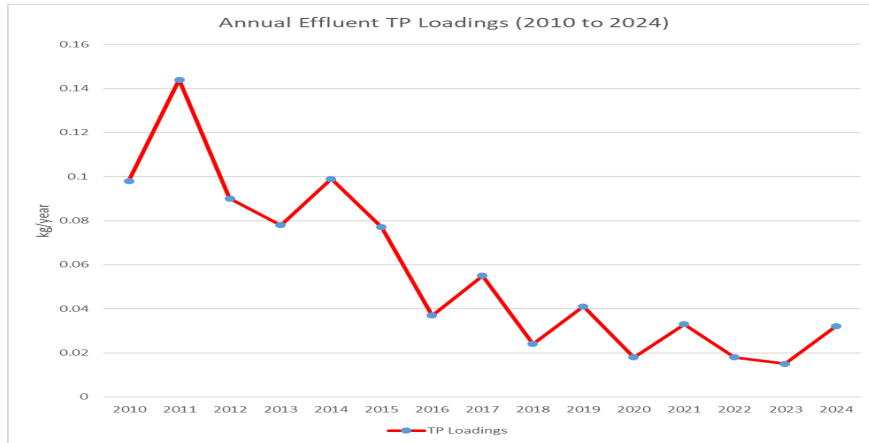
Final Effluent Loadings Capacity Reduction

There is no specific regulation or guideline that clearly identifies the 80% loading value. However, Procedure D-5-1 discusses calculating reserve capacity at WWTP and WTP. This is used to help with municipal planning and determining if the municipality is able to handle any additional growth or determine if future plant expansions may be required.

MECP does however monitor the rated capacity from year to year and if a facility is above the 80% of the rated capacity the normal practice is to encourage the owner of sewage works to acknowledge that the sewage works is approaching the rated capacity and that future plant expansion/upgrades or flow reduction measures should be considered. Expansions/upgrades to a sewage works typically requires a minimum of three to five years to develop; which is also why the ministry recommends beginning planning once the 80% mark has been reached or exceeded.

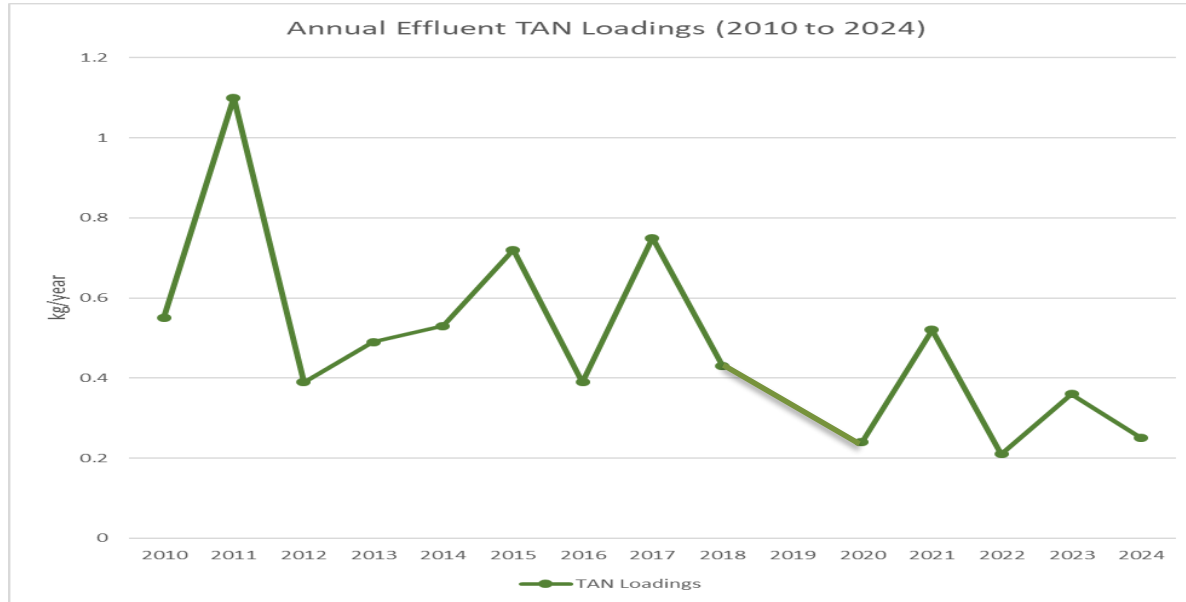


Ecofix Effluent Results – Total Phosphorus

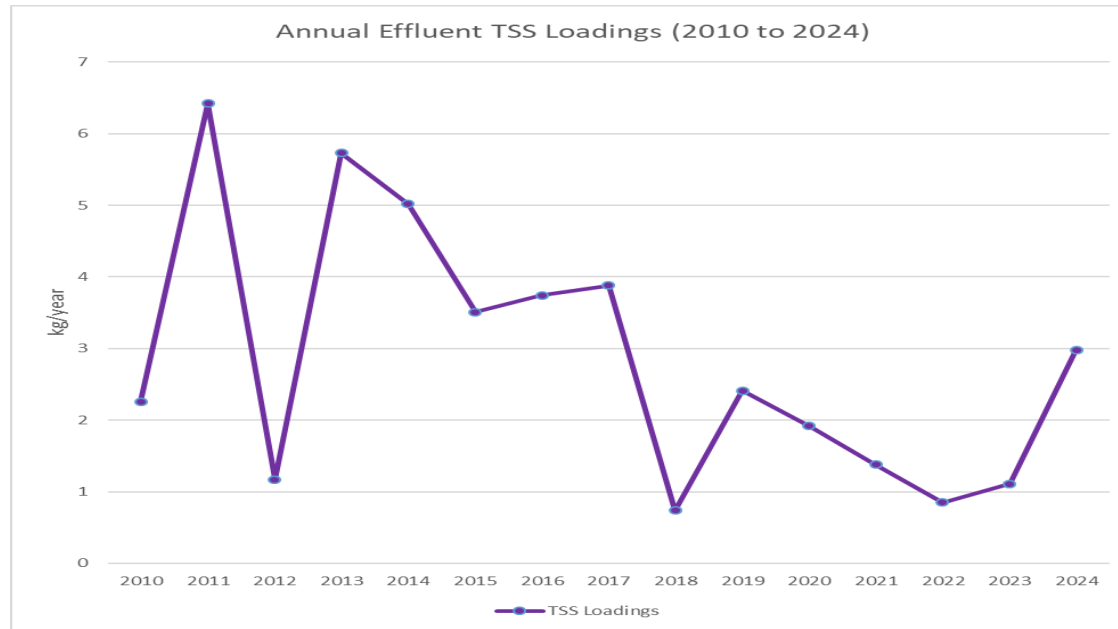


- The Biofixe modules are operating well, providing good overall quality effluent with respect to the removal of BOD, TAN, TP and TSS. Once more data is available with all four blowers in operation, an assessment can be made to determine the system's optimal effectiveness.

Ecofix Effluent Results – Nitrogen as Ammonia



Ecofix Effluent Results – Total Suspended Solids



Extreme heavy rains in
April 2024
Lagoon Offline for UV
Building Install

Savings working with OCWA

Procurement, VORs, POTS and Technology

- Province-wide chemical procurement
- Chemical pumps and parts VORs
- Highlift and lowlift pump VORs
- Experienced operators – less time, less cost
- Administration costs absorbed by OCWA
- DWQMS – continual improvement
 - Beginning ISO based program for Wastewater
- Readily available specialty equipment
- OERT- OCWA Emergency Response Team
- Thousands saved on calibrations and verification



Discussion

