

**OCWA**

ONTARIO CLEAN WATER AGENCY  
AGENCE ONTARIENNE DES EAUX

Your Total  
Water Solutions  
Provider

# The Township of McGarry

Presentation to council  
January, 2025

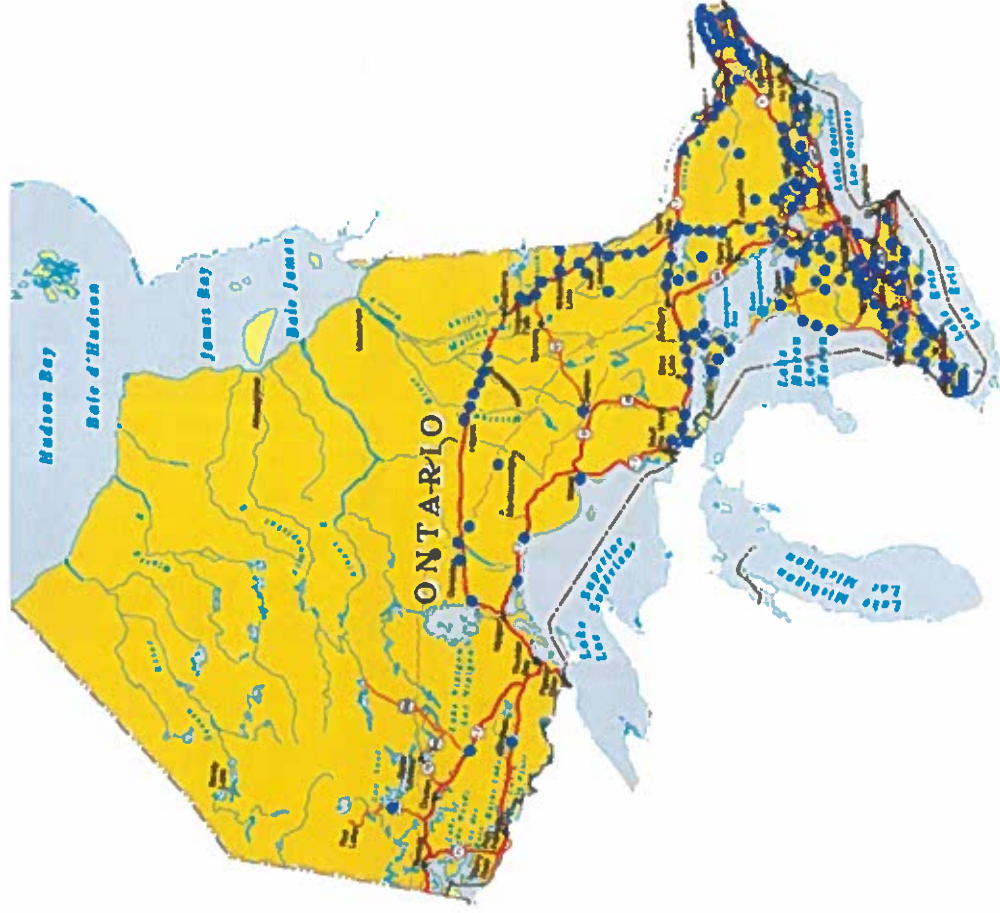


# Agenda

- OCWA brief review and staff changes
- Comparison of flows (water and wastewater)
- Tower inspection report
- Consideration for Soda Ash addition
- Questions

# 1 in 4 Ontarians Place their Trust in Us

- Largest water & wastewater operator in Canada
- Hub and spoke network is our structural backbone
- OCWA's five Emergency Response Teams backstop water emergencies across province



# OCWA – NEO Organization

- Assigned Kodiak Jolivet as Process Compliance Technician
- Recently hired an electrician
- Building our linear services team and equipment
  - Hydrant services, flushing, valve turning, leak detection, camera rover, swabbing
- Maximize asset life through asset maintenance program



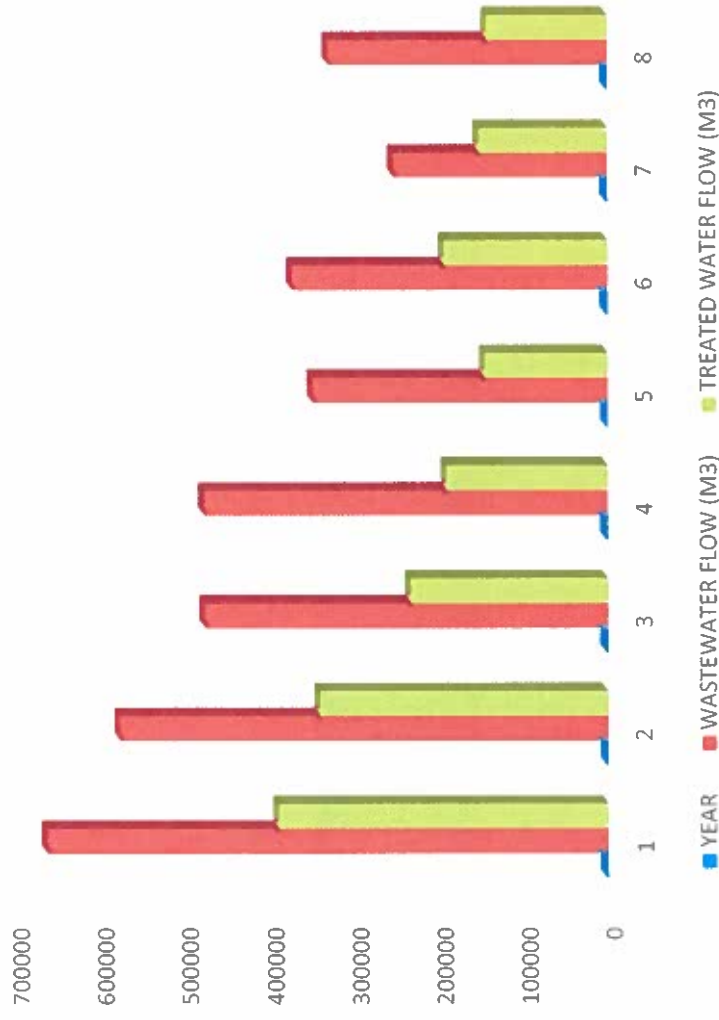
# Current Agreement Highlights

- Term = 5 yrs – January 1, 2021  
with 5 year renewal option.
- Current agreement expires end of this year
- Major Maintenance:
  - Recommendations are submitted by Nov 30<sup>th</sup>
  - Procurement of parts
- Reporting = Quarterly update, Annual facility Performance, regulatory reporting as required.
- Communications = Regular, Ongoing

# Linear Upgraded and Flows

YEAR	WASTEWATER FLOW (M3)	TREATED WATER FLOW (M3)	MAIN BREAKS
2017	662826	390674	11
2018	576627	342083	6
2019	475681	233524	1
2020	476828	191383	3
2021	349792	145878	2
2022	373865	194073	10
2023	253193	152271	7
2024	331845	143146	4

Historical Flows



2024 totals  
extrapolated from  
3<sup>rd</sup> quarter flows

# Tower Inspection Report

- Met with Mark regarding the report
  - Tackle the H&S issues first then move on what can be afforded
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# Soda Ash Consideration

- **Langelier Saturation Index (LSI)**
- A measure of the tendency of water to scale or corrode pipes, based on pH, conductivity, hardness, alkalinity and water temperature.
  - LSI = Negative => Corrosive
    - McGarry = -0.5 (corrosive)
  - LSI = 0 => Stable
  - LSI = Positive => Scale forming
- What can we do?



# Alkalinity Adjustment

- Easily increased with the use of Soda Ash
  - Soda ash is effective when increasing Alkalinity, while not drastically increasing pH
    - Alkalinity in distribution = 70-71
    - Calcium in the system = 25.4-26.6
    - pH in the system = 7.48-7.51
  - With a dosage of 25-30 mg/L we can achieve positive LSI
    - Based on several bench tests

## V-Town Monthly Total Flow

Monthly Total Flow	Well 1 (m <sup>3</sup> )	Well 2 (m <sup>3</sup> )	Total (m <sup>3</sup> )
July 2022	23117	634	23751
August 2022	12864	1062	13926
September 2022	8750	206	8956
October 2022	11601	281	11882
November 2022	14717	210	14927
December 2022	16687	332	17019
January 2023	15183	280	15463
February 2023	13256	265	13521
March 2023	15572	288	15860
April 2023	14489	198	14687
May 2023	14582	281	14863
June 2023	12597	273	12870
July 2023	12098	201	12299
August 2023	11153	196	11349
September 2023	9136	257	9393
October 2023	10017	187	10204
November 2023	10616	225	10841
December 2023	10752	169	10921
January 2024	10739	207	10946
February 2024	11048	114	11162
March 2024	12763	158	12921
April 2024	11504	173	11677
May 2024	12637	247	12884
June 2024	11119	270	11389
July 2024	15033	837	15870
August 2024	11937	694	12631
<b>Average</b>	<b>12844.88</b>	<b>317.12</b>	<b>13162</b>

## Dosage and Cost

- Approximately 12 to 17 bags per month
  - \$40 per bag
  - \$480 - \$680 per month
  - Cost of parts and implementation can be calculated if desired.
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# Thank you.

# Questions

