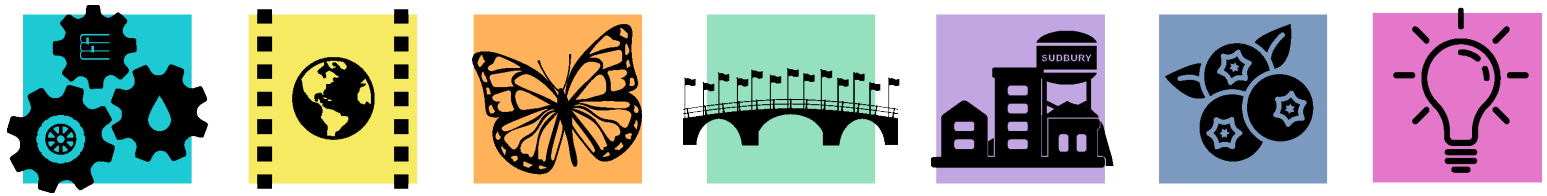
Energy & Operational Savings

Wastewater Treatment

Annual Update to Operations Committee

Greater Grand Sudbury

2019-2027 Strategic Plan Priorities



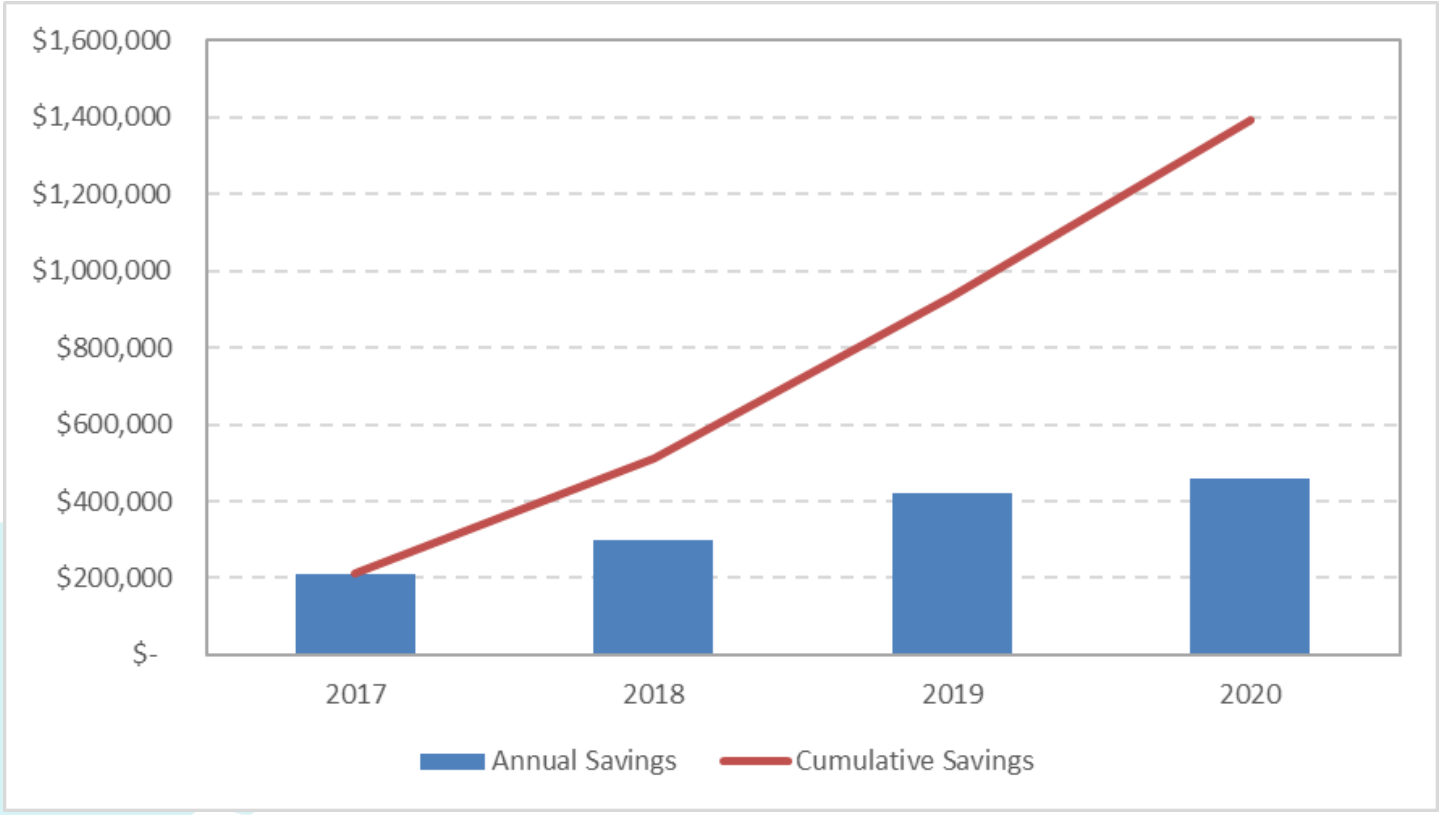
Sudbury Wastewater Treatment Plant Electricity Billing – Cost Avoidance

- Global adjustment (GA) is the portion of electricity costs that contribute to building infrastructure, maintaining resources and funding conservation programs.
  - The factor used to calculate GA can be reduced through participation in the Industrial Conservation Initiative (ICI)

- A mandatory ICI peak hiatus was introduced by the Ontario Government on June 26, 2020
  - Customers were allowed to use their data from 2019-2020 period for 2020-2021
  - Electricity use was curtailed for all 5 peaks in 2019
  - Reducing electrical costs allows for re-investment in facilities to complete necessary upgrade and repairs while also stabilizing rates.

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Sudbury Wastewater Treatment Plant Electricity Billing – Cost Avoidance



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Preventative Maintenance
Tank Cleaning

- Aeration tanks cleaned as part of 3 year tender to address all critical process vessels in wastewater treatment plants (WWTP)
  - 2019: Sudbury and Walden WWTPs
  - 2020: Dowling, Levack & Coniston WWTPs
- Coniston WWTP presented a unique challenge as it uses an oxidation ditch instead of conventional aeration tanks



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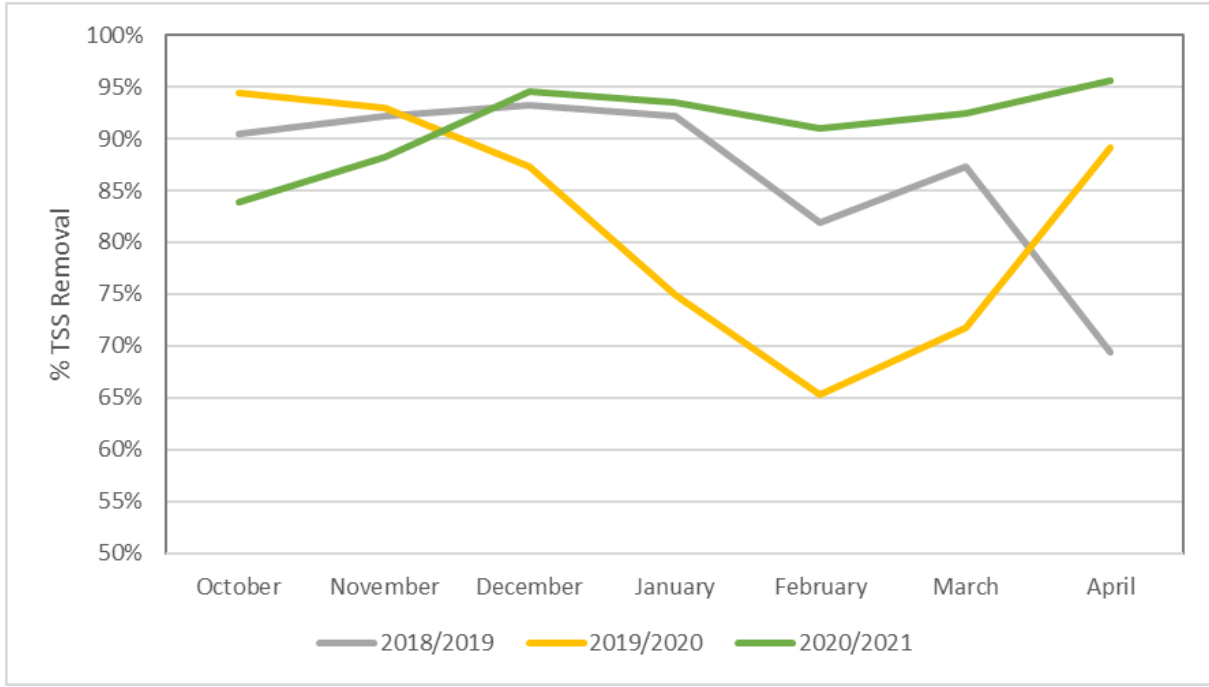
Preventative Maintenance
Tank Cleaning

- Contractor (Entec Waste Management) used smalls scale dredge to clean ditch with facility online
- Over 50 tonnes of compacted grit and debris removed from the facility



Preventative Maintenance Tank Cleaning

- Removal of grit and debris improved retention time and dissolved oxygen levels
- Facility performance improved during shoulder season more consistent and higher average Total Suspended Solids (TSS) removal



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