

# Public Works

Evan Grieger, Director of Public Works



# Agenda

- A Day in the Life
- Our Team
- Equipment, Facilities
- Departmental Duties
- Legislation and Policies
- Budget
- Council and the Department
- Future Plans
- Waste Management



# A Day in the Life

- Our Goal?
  - To provide fiscally responsible service and enhance the quality of life for all residents, businesses and visitors of Trent Lakes with regards to Public Works assets (roads, culverts, ditches, equipment, water services and facilities)
- How?
  - Relying on clear data, historical information, and residents concerns to make sound management decisions.



Locate Problems  
Implement solutions

# Our Team

- Supervisor of Waste/Public Works Coordinator, 3 Public Works Foremen, Operators and Labourers, Transfer Station Attendants (permanent part-time, seasonal, casual)
- Each team member is a vital part of the Public Works department to ensure the department meets the expected level of service
- Roads staff work out of 49 Depot and Buckhorn Depot, directed accordingly to where the work is planned



# Evan Grieger

## Director of Public Works



- Born and raised in Millbrook
- Graduated 2015 University of Guelph – Bachelor of Engineering (Environmental), Professional Engineer Designation (PEO) 2018
- 3 years working for RVA (Engineering Consulting firm), focus on water and wastewater projects
- 4 years working for Township of Cavan Monaghan (Project Engineer – Operations Supervisor)
  - 1+ years with Municipality of Trent Lakes
  - Married (Melissa) with dog (Nanook)
  - Youth Group Leader (Millbrook Christian Assembly), Kawartha Youth for Christ board member
  - Hobbies : Watching sports, spending time outdoors and working out



# Things to keep in mind

- Road profile is 177 km of Surface Treatment, 16 km of Asphalt, 105 km of gravel roads. Roughly 300 km of Municipally maintained roads.
  - Cost per km re-gravel road – \$13,000
  - Cost per km double surface treatment – \$52,000
- There are over 250 km of Fire Routes within the Municipality, beginning maintenance on one would create a precedence for all the others.







# Equipment

## 32 Pieces of Equipment (total value)

- Ten (10) tandem combo snow plow/dump trucks (\$4,000,000)
- Nine (9) pickup trucks, five (5) with plow and sander units (\$724,000)
- Four (4) loaders (\$1,000,000)
- Two (2) excavators (\$500,000)
- Two (2) graders (\$800,000)
- One (1) bulldozer (\$180,000)
- One (1) Pick-up Broom Sweeper (\$450,000)
- One (1) culvert steamer (\$20,000)
- One (1) wood chipper (\$100,000)
- One (1) 25 tonne trailer (\$50,000)



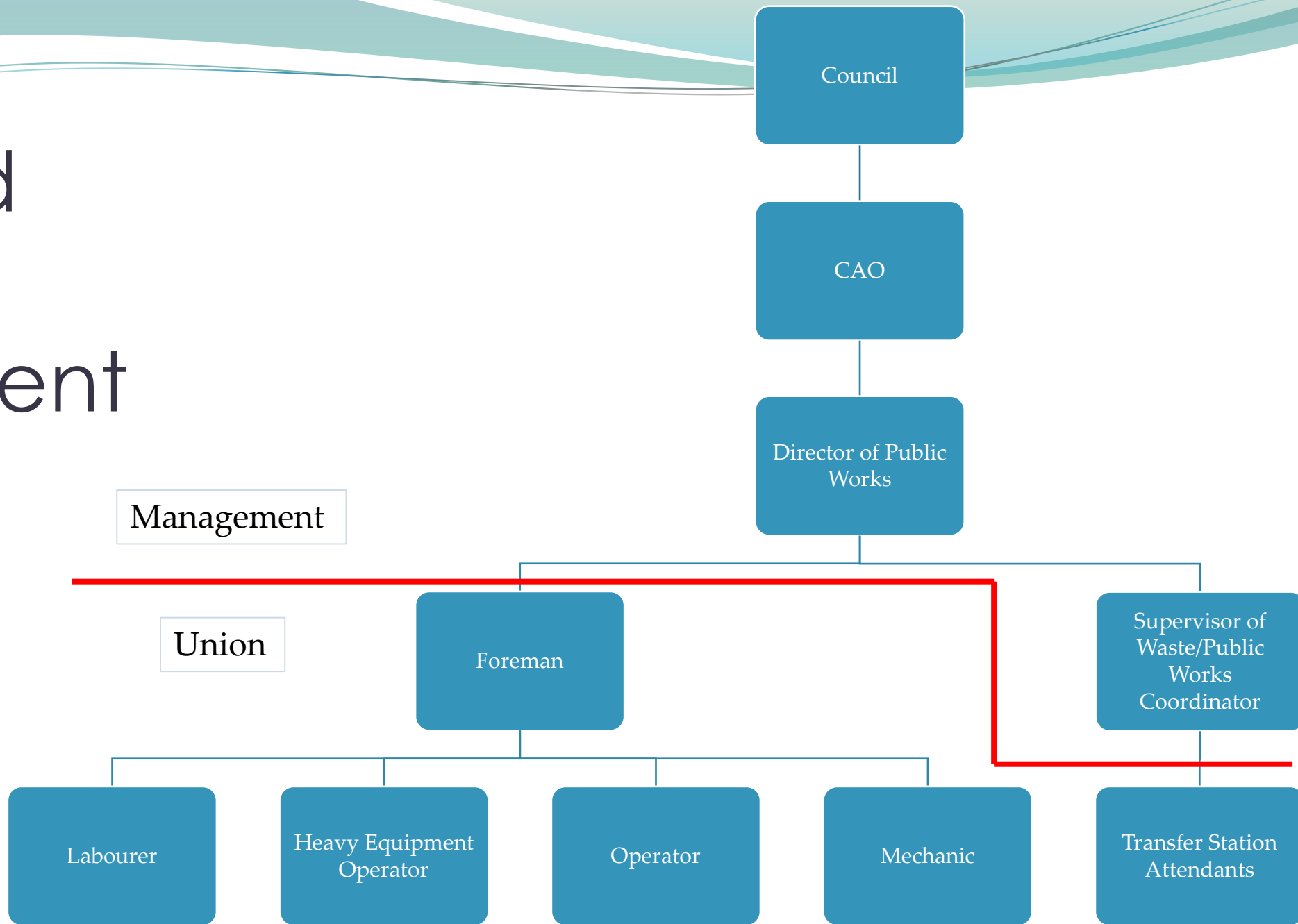


# Facilities

- 49 Depot (Bobcaygeon)
  - 2 Sand Domes, 5 bay MTO garage (built early 1970's)
- Galway Depot (built 1970s)
  - Sand Dome, 4 bay original Municipal Garage
- Buckhorn Depot (built 1970s)
  - Sand Dome, salt shed, 5 bay Municipal Garage
- Cavendish Depot
  - Sand shed



# Unionized Work Environment



# Departmental Duties

## Winter Season

- Snow plowing, application of sand/salt or salt to roads and parking lots
- Provide sand to Fire Routes
- Removal of built up snow
- Brushing
- Creating plan for upcoming season
- Review Asset Management Plan



# Departmental Duties

## Spring/Summer/Fall

- Snow Plowing (hopefully not too much!)
- Street sweeping
- Patching – Hard top roads impacted by freeze/thaw cycle
- Brushing, roadside mowing
- Ditching, culvert replacement
- Grading, gravel and calcium chloride application



# Departmental Duties

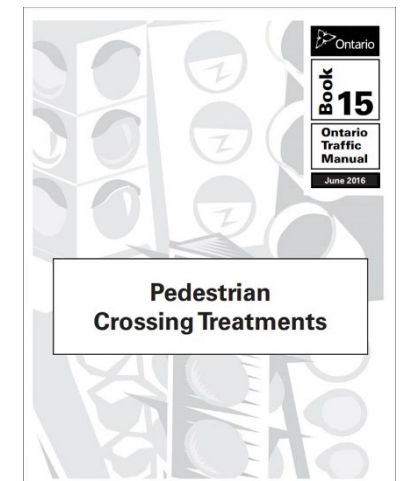
## Spring/Summer/Fall

- Address public concerns – washouts, shouldering
- Preventative maintenance
- Capital projects – surface treatment, HMA, micro-surfacing, crack sealing
- General Maintenance of Transfer Station Sites
- Review Asset Management Plan



# Legislation

- Minimum Maintenance Standards for Road Maintenance (O. Reg 239/02 amended O. Reg 366/18)
- Commercial Vehicle Operators Registration (CVOR)
  - Required for vehicles over certain weight, annual safety completed internally (cost savings)
  - Ministry of Labour
  - Various Ontario Traffic Manuals





# Legislation and Policies

- Ontario Provincial Standard Specification (OPSS) for various construction standards
- Level of Service Policy AD – 42
  - Reflect standards laid out within MMS
- Entrance Permit and Maintenance Policy
  - Entrance's are responsibility of resident



# Budget

- Operation Budget typically around \$4,200,000
  - Vehicle repairs (7.6%)
  - Fuel (6.6%)
  - Sand/Salt (7.9%) – material only
  - OMERS/WSIB/Wages (32%)
  - Costs to operate and monitor Transfer Stations and closed landfills



# Budget

- Capital Budget typically \$600,000 - \$1,500,000
  - Road resurfacing projects
  - Gravel application on roads
  - Fleet replacement
  - Depot Upgrades/Replacement
  - Follows Asset Management Plan



# Council and the Department

- Public Works is the most forward facing department in the Municipality and require Council support to ensure LOS are maintained
  - Transfer Stations – For some residents, only contact they have with Municipality
  - Maintaining Roads – Snowplowing to grading, all residents utilize roads
    - Complete reports in relation to capital replacement, Waste Diversion programs, road safety programs and various By-laws pertaining to Public Works



# Future Plans

- Facilities need to be replaced
  - All buildings are near or exceed useful life, newer equipment is larger
- Continue to look for more effective ways of extending road life
- Look for opportunities to reduce greenhouse emissions, ensure current practices are sustainable
- Work with local schools to expose students to Municipal work



# Departmental Duties – Waste Management

- Administration and operation of four transfer stations and monitoring of 2 closed landfills
- Recycling, re-use, and diversion programs
- Events
- Contract administration
- Promotion and education
- Site maintenance





# Departmental Duties – Waste Management

- Transfer Station Attendant Daily Duties
  - Opening and closing of the site
  - Greeting residents
  - Educating and informing residents
  - Inspections of incoming waste
  - Charging appropriate waste disposal fees and cash receipting
  - Monitoring and maintaining compartments and bins
  - Site cleanliness, picking up scattered debris
  - Compliance with regulations



# Legislation

- Environmental Protection Act
- Waste Free Ontario Act
- Occupational Health and Safety Act



# By-Laws

- B2022-036 – Waste By-Law
  - A By-Law to establish, maintain and regulate the disposal of waste, recyclables and other refuse at the Transfer Station Facilities owned by the Municipality of Trent Lakes
- County of Peterborough By-Law No. 2016-17
  - A By-Law to encourage waste reduction and to cooperatively implement municipal solid waste practices with the County of Peterborough.
- B2016-049 – a By-Law to prohibit the dumping or depositing of litter on municipal lands and roads within the Municipality of Trent Lakes.

