

**TYLin**



**GEORGINA**

PUBLIC INFORMATION CENTRE

# Cockburn Subdivision Watermain Improvements

November 10, 2022, 6:00pm to 8:00pm

The Link – Event Hall – 20849 Dalton Road

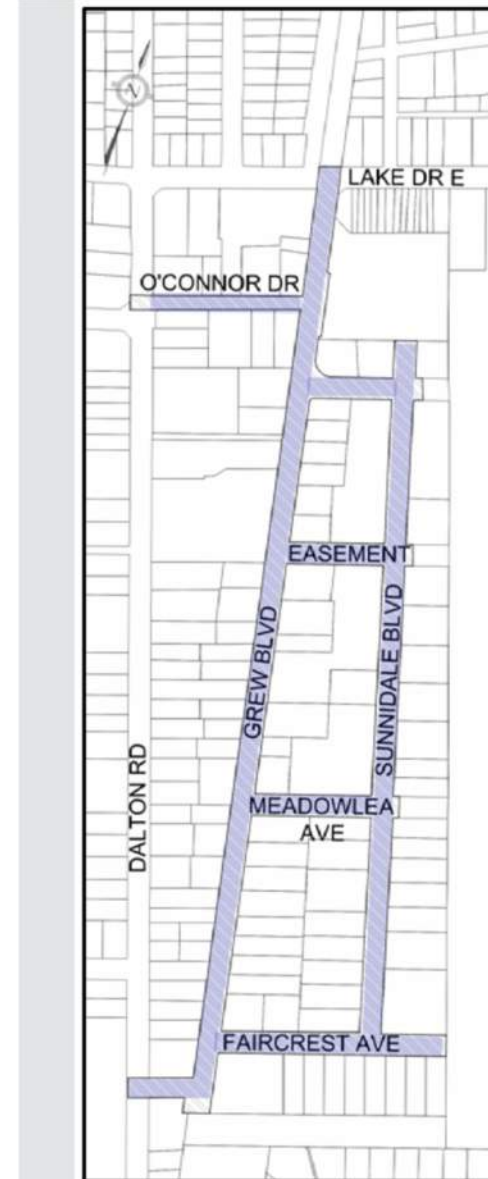
# Land Acknowledgement

The Town of Georgina recognizes and acknowledges that we are on lands originally used and occupied by the First Peoples of the Williams Treaties First Nations and other Indigenous Peoples, and on behalf of Mayor and Council, we would like to thank them for sharing this land. We would also like to acknowledge the Chippewas of Georgina Island First Nation as our close neighbour and friend, one with which we strive to build a cooperative and respectful relationship.

We also recognize the unique relationship the Chippewas have with the lands and waters of this territory. They are the water protectors and environmental stewards of these lands and we join them in these responsibilities.

# Where is this Project?

- This project includes the watermains along the following streets:
  - O'Connor Drive
  - Grew Boulevard
  - Meadowvale Avenue
  - Sunnidale Boulevard
  - Faircrest Avenue



# What is the purpose of this project?



Improve water supply service in the Cockburn Subdivision for the long term



Provide redundancy within the system to maintain security of supply (looping)



Asset Management – Review aging pipes and equipment and carry-out next steps to maintain reliable water system

Sanitary sewer servicing is not part of this project

# What activities have been completed to date?



**June 2022** - Completed test pits to better understand location of existing buried utilities to provide clearance to proposed watermain



**August 2022** - Completed ground penetrating radar (GPR) to identify limits of existing critical pipe to check clearances to proposed watermain



**August 2022** - Completed drilling to understand the existing soils around the new watermain



# How is the water system currently operated?



Town flushes water from blow-off at east limit of Faircrest Avenue frequently, and Town samples and records **chlorine residual**.



Town flushes water from hydrant near 46 Sunnidale Boulevard frequently, and Town samples and records **chlorine residual**.



**Chlorine residual** is an indicator of water quality.

All residents in area receive a 3m<sup>3</sup> rebate on their quarterly water bill to offset the additional flushing of house fixtures.

# What watermain improvements were considered?

## Alternative Solutions

- Reline existing watermain
- Replace existing watermain in same alignment (open cut)
- Replace existing watermain in same alignment (pipe bursting)
- Replace existing watermain in new alignment (open cut)

## Evaluation Criteria

- Consider watermain lifespan, constructability, construction duration
- Impacts to natural environment (trees, stormwater run-off)
- Impacts to existing residents, business
- Economical Impact / Costs

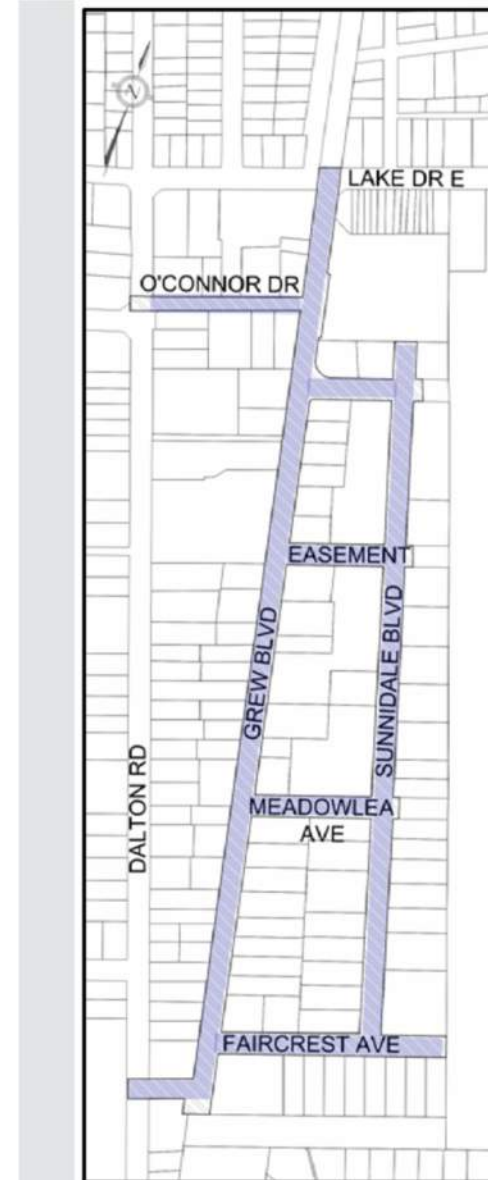
## Preferred Solution

- The alternative solutions were assessed based on the evaluation criteria.
- The preferred solution(s) provided the best balance between the overall benefits and potential impacts.

# What is the preferred alternative?

## General Description of Proposed Works

- Replacement of existing watermains with new watermains
  - 200mm watermain on Grew, O'Connor, Faircrest (Grew to Sunndidale)
  - 150mm watermain on Sunndidale, Meadowlea
  - 50mm watermain on Faircrest (Sunndidale to dead end)
- Remove existing hydrants and install new hydrants at new locations in accordance with Town's requirements
- Replacement of existing water services with new 25mm-dia. copper water services from the watermain to the property line and connect to existing water service





# Typical Construction Photos



Temporary Potable Water System



Open Cut Installation - Road



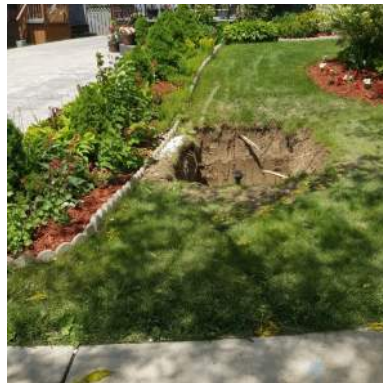
Open Cut Installation - Boulevard



Relining Existing Watermain



Installation of Hydrants



New Water Services

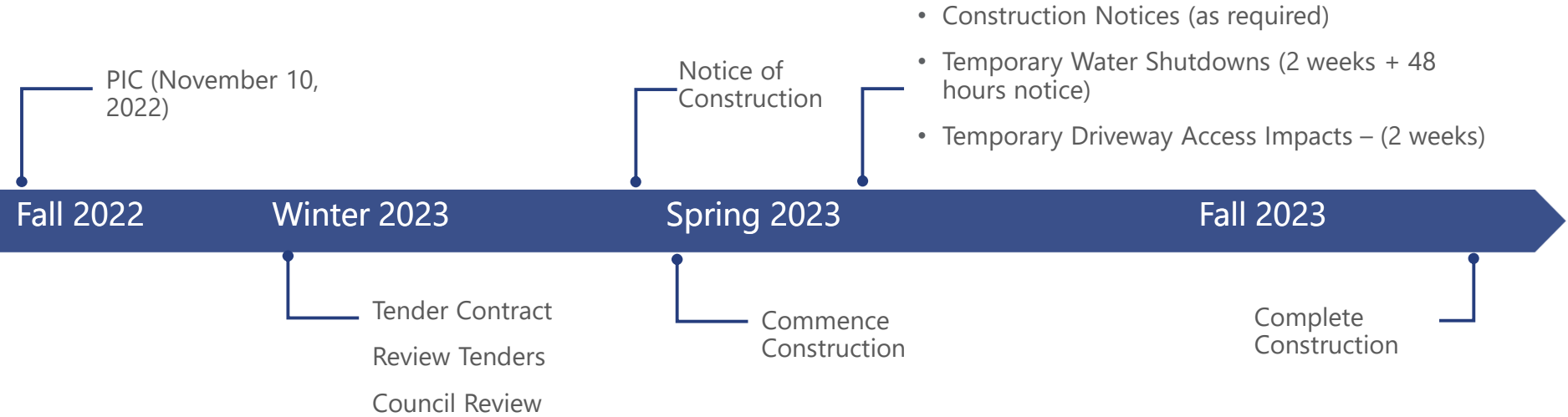


Trench Backfill



Restoration

# Next Steps and Future Communications



Contact Information		
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