

TOWNSHIP OF EDWARDSBURGH CARDINAL
INFORMATION ITEM

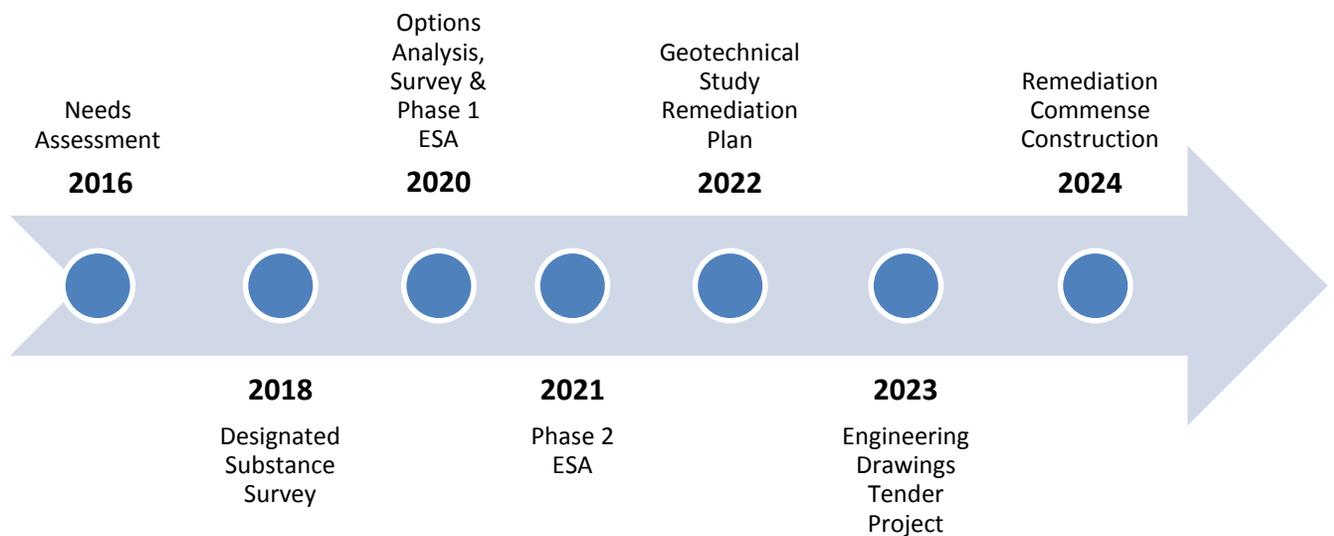
Committee: Public Works, Recreation and Facilities

Date: July 19, 2021

Department: Fire

Topic: Fire Station #2 Progress Report

Background: The fire service has evolved rapidly in recent years. Not that long ago a fire station was only required to store apparatus. Training was casual and information regarding firefighter health and safety was limited. Today, studies on firefighter health are plentiful, and standardized training has elevated firefighter’s awareness of health and safety issues. This has created a high level of expectation from the employer. A diversified workforce has also created challenges in existing facilities that were built during a time of male exclusivity in the fire service. While this progression has created a well-educated and professional fire department that represents the community, it has raised the bar higher in respect to what can be reasonably achieved with existing infrastructure. This is a common theme Provincially as evidenced by the number of new fire stations being constructed.



- 2016** A building audit and needs assessment completed by Eastern Engineering resulted in a recommendation that the building is not suitable/sustainable for continued use as a fire station.
- 2018** A Designated Substance Survey was completed by St. Lawrence Testing to determine the presence of hazardous substances that could pose a threat to workers and significantly increase the cost of a demolition, construction or restoration project. The study concluded that it is probable that silica is present in the concrete slab, block walls and mortar and standard precautionary measures will ensure worker exposure is reduced to the lowest practical level.
- 2020** Colbourne & Kembel Architects completed an options analysis with three alternative design options, one that included a renovation of the existing building.

At the June 2020 Council meeting, Council directed staff to investigate the former Cardinal arena site to determine suitability for a new fire station build by completing legal and topographic surveys, a phase 1 environmental site assessment and geotechnical report.

Phase 1 Environmental Assessment (ESA) completed by St. Lawrence Testing suggested that a Phase 2 Assessment be carried out to determine if there is any subsurface soil contamination due to the active railway line to the east.

Legal survey was completed by IN Engineering and Surveying.

- 2021** Phase 2 ESA completed by St. Lawrence Testing. All of the soil samples taken met the standard for an institutional property, however one of three groundwater samples was found to contain hydrocarbons in excess of environmental regulation. This finding was confirmed by a second round of ground water samples.

Proposed next steps and timelines...

- 2022** Install additional test wells and obtain samples to determine the extent of contamination. This will allow a remediation plan to be developed that can be executed during site excavation.

Complete Geotechnical Study.

- 2023** Complete detail design drawings and issue tender for building construction.

- 2024** Commence construction.



Fire Chief