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Date: August 12, 2019

To: Mayor and Council

Author: Dan Wolicki, Manager Municipal Facilities and Properties

RE: Cedar Island Boat Launch and Floating Docks

Report No.: MS 2019-33

AIM

To provide Council with information pertaining to the conditions of the Cedar Island Boat Launch and to seek support for floating docks.

BACKGROUND

The Kingsville Municipal Boat Launch is located off Heritage Road at 599 Cedar Island Drive located within the north-south channel that connects into Lake Erie. The Boat Launch has been municipally owned and maintained since 2012 where a fuel tank platform was installed to provide boaters an opportunity to purchase fuel.

The Boat Launch is operational beginning on the Victoria Day weekend until the end of September and an attendant is present from Thursday through Sunday where boaters are able to purchase fuel at their leisure.

Since June 13th, the operations of the Boat Launch and the fuel platform has been suspended due to the instability of high water levels and for the interest of public safety and the protection of staff.

A map of the area and photos of conditions are included in Appendix A of this report.

With record high lake levels, surrounding areas affected can vary from day-to-day based on wind speed and direction. The Essex Region Conservation Authority officials continue to monitor conditions and advise accordingly in which they have cautioned municipalities to expect the water levels to potentially rise further before ultimately receding to a favourable level.

DISCUSSION

While Lake Erie has surpassed the established all time high monthly mean level just recently set in May 2019 by 9 cm which does not account for wind-driven set-up or waves, the Essex Region Conservation Authority (ERCA) expect the high water levels to become more common for the foreseeable future (Flood Watch report attached in Appendix B of this report).

As a result, the high water levels presents challenges in sustaining the current operations and existing infrastructure of wooden docks.

Recently, a temporary improvement was completed to provide boaters the opportunity to launch their boats properly for the remainder of the boating season.

In order to provide a safe and sustainable solution to this matter, the installation of floating docks is recommended for the Boat Launch and fuel platform as the most favourable option to continue to operate under the current and expected conditions.

The concept of constructing floating docks would continue the Town's diligence towards the development of infrastructure networks that are safe, sustainable, and address the challenges associated with aging systems, population growth, and environmental impact.

The improvement would gain a positive influence in connection with tourism and increase recreational boating along with becoming an inclusive amenity accessible by all. Floating docks would also be aligned with the vision of Cedar Island Beach and the Marina Action Plan:

'The Town of Kingsville will provide safe, functional, and attractive Marina and beach area to ensure that these are enjoyed to all members of the public'

Table 1 provides general quotations on the options of floating dock materials including the cost for removal and installation of new floating docks.

Each type of floating dock will be evaluated on performance and durability in comparison to the proposed costs and return on investment.

Table 1

	Type of Floating Dock	Cost
Option 1	Wooden Decking	\$45,000.00
Option 2	High Density Polyethylene Resin (Plastic)	\$58,000.00
Option 3	Composite Decking / Aluminum	\$68,000.00
Option 4	Aluminum	\$75,000.00
Option 5	Concrete	\$115,000.00

Option 1 / Wooden Platform Floating Dock



Option 2 / High Density Polyethylene Resin (Plastic) Floating Dock



Option 3 / Composite Decking-Aluminum Floating Dock



Option 4 / Aluminum Floating Dock



Option 5 / Concrete Floating Dock



LINK TO STRATEGIC PLAN

Improve recreational and cultural facilities and opportunities within the Town of Kingsville.

FINANCIAL CONSIDERATIONS

Proposed costing to be considered in the 2020 Capital Budget.

CONSULTATIONS

Leo Mailloux Construction
Candock
Bellingham Marine
Cottage Docks
Municipal Services Department

RECOMMENDATION

For Council to receive the report and that the implementation for the installation of floating docks be considered as a capital item in the 2020 budget deliberations.

Dan Wolicki

Dan Wolicki
Manager of Municipal Facilities and Properties

G.A. Plancke

G.A. Plancke, Civil Eng. Tech (Env.)
Director of Municipal Services

Peggy Van Mierlo-West

Peggy Van Mierlo-West, C.E.T.
Chief Administrative Officer