

Section I – Items for Board of Directors Action

TO: Chair and Members of the Board of Directors
Friday, April 30, 2021 Meeting

FROM: Sameer Dhalla, Director, Development and Engineering Services

RE: **DELEGATED AUTHORITY TO AWARD CONTRACT No. 10035896 FOR TRCA SHORELINE HAZARD MAPPING UPDATE**

KEY ISSUE

Request for delegated authority to the Chief Executive Officer to award RFP No. 10035896 for required consulting services to support the Shoreline Hazard Mapping update study and work underway related to the National Disaster Mitigation Program (NDMP) Intake 6 project funding deadlines.

RECOMMENDATION

WHEREAS Toronto and Region Conservation Authority (TRCA) is pursuing NDMP Intake 6 funded projects that require consulting services;

AND WHEREAS TRCA is currently soliciting proposals through a publicly advertised process and will evaluate the proposals based on pre-established criteria, meeting all TRCA procurement requirements;

THEREFORE, LET IT BE RESOLVED THAT the Chief Executive Officer be granted delegated authority to award the contract, plus appropriate contingency, in order to expedite the Shoreline Hazard Mapping Update study timelines, prior to the May 2021 Board of Directors meeting;

THAT should TRCA staff be unable to negotiate a contract with the successful Proponent, staff be authorized to enter into and conclude contract negotiations with other Proponents that submitted proposals, beginning with the next highest ranked proponent meeting TRCA specifications;

THAT authorized TRCA officials be directed to take whatever action may be required to implement the contract, including the obtaining of necessary approvals and the signing and execution of any documents;

AND FURTHER THAT TRCA staff report back on the contract award to at a future Board of Directors meeting.

BACKGROUND

Shoreline hazard studies are used to identify hazards such as lake-based flooding, shoreline erosion, and dynamic beaches. These studies help define TRCA's regulation mapping and assist with land use, infrastructure, and emergency management planning along the Lake Ontario shoreline.

The current shoreline flood hazard standards were developed using information from the Ministry of Natural Resources in 1989, making them over 30 years old. Since 1989, multiple significant events have occurred which necessitates an update to the flood hazard limit. In 2017 and 2019 record water levels in Lake Ontario were greater than the 100-year limit established in

Item 7.2

1989. Also, the International Joint Commission (IJC) implemented a new regulation plan for the St. Lawrence Seaway and Lake Ontario in 2017. The plan is known as Plan 2014, is expected to result in a broader range of water levels, depending on the return period considered. Taken together, these factors would produce higher return period lake levels and larger flood hazard limits than those previously calculated. This is also an opportunity for TRCA to update shoreline erosion and dynamic beach hazard mapping with the new lake level information and new base mapping information based on LiDAR, and incorporate information from site-specific studies supporting remedial erosion works. All calculations and procedures would be consistent with provincial technical guidelines and regulations. The combination of updated flood, erosion, and dynamic beach hazards would enable TRCA to update regulation mapping along the entire Lake Ontario shoreline.

Completion of this project would create new shoreline hazard information incorporating the latest data, and technologies to better support land use, infrastructure and emergency management planning, and engineering standards development. Ultimately this would serve to better protect people and property from flooding, erosion, and dynamic beach hazards on the Lake. The member municipalities with shorelines in TRCA's jurisdiction, the City of Toronto and Durham Region, have provided letters of support for this project.

RATIONALE

TRCA is anticipating that funding will be approved through Intake 6 of the NDMP to conduct this work. Earlier NDMP projects were given two years to complete, however Intake 6 projects are required to be completed within a year (by April 2022), which is an aggressive timeline for a project of this scope. To meet this timeline, TRCA staff request delegated authority to award the contract in an expedited manner to enable the selected consultant to initiate the work as soon as possible.

Relationship to Building the Living City, the TRCA 2013-2022 Strategic Plan

This report supports the following strategic priority set forth in the TRCA 2013-2022 Strategic Plan:

Strategy 7 – Build partnerships and new business models

Strategy 2 – Manage our regional water resources for current and future generations

FINANCIAL DETAILS

Assuming the successful federal funding commitment, the NDMP will fund 50% of the project costs and remaining costs will be funded through TRCA's Flood Protection and Remedial Studies program account 107-02, supported by funding from the City of Toronto, as well as funding from the Region of Durham. Funds will be tracked in account 107-18.

As TRCA staff are currently working through the procurement process, detailed cost information will be provided at a future Board of Directors meeting.

DETAILS OF WORK TO BE DONE

The key phases of the project are outlined below:

- Release and award of the RFP for external technical support services and execution of a consulting services agreement with the successful consulting team (May 2021)
- Complete background review and data gap analysis, and basemap development
- Complete detailed hazard characterization assessments and the creation of shoreline hazard maps (March 2022)
- Project reporting and closing (April 2022)
- Summary of findings report to the Board (Summer 2022)

Item 7.2

Report prepared by: Nick Lorrain, extension 5278, and Robert Chan, extension 5728

Emails: nick.lorrain@trca.ca, robert.chan@trca.ca

For Information contact: Nick Lorrain, extension 5278

Emails: nick.lorrain@trca.ca

Date: April 30, 2021