



COUNCIL REPORT
Engineering / Public Works
For the April 7, 2020 Council Meeting

DATE: March 31, 2020
TO: Paul Gipps, CAO
FROM: Mark Roberts, Project Manager
RE: Willow Park Shoreline Recovery Works – Contract Award

Council's approval is necessary at this time to ensure the work can be completed within the Permit window and before lake levels rise too high. Not completing the work at this time could mean losing the Provincial funding portion of 80%.

RECOMMENDED MOTION:

THAT Council award the construction contract for the Willow Park Shoreline Recovery Works to Landmark Solutions Ltd., for a total value of \$471,314.50 excluding taxes.

RATIONALE:

The City must complete the recovery works at Willow Park before water levels start to rise in Okanagan Lake as a result of the 2020 freshet. Missing this timeline would result in a delay in the project until February 2021, and could put Provincial Recovery funding approval in jeopardy due to the extended timeline.

As a result of the time constraints, Provincial permitting requirements, and construction costs, staff is requesting the ability to expedite removal of the failed retaining wall (gabion baskets) at Willow Park that pose a public safety hazard.

BACKGROUND:

Unprecedented high water levels during the 2017 flooding of Okanagan Lake allowed waves to submerge, erode and undermine sections of the retaining wall at Willow Park. This caused erosion behind the retaining wall which is constructed from gabion baskets, creating holes in the soils, which have caused the wall to fail.

Since the flooding conditions in 2017, the City of West Kelowna have been working furiously to complete the 50 flood recovery projects that have previously been reported on at the November 19, 2019 Council Meeting. Recovery of Willow Park has been a difficult project to date, requiring different designs, environmental and hydrological surveys, and engineering to satisfy the Provincial Permit requirements, which was issued on March 27, 2020, and amended again on March 30, 2020. The final design will remove the failed retaining wall, and regrade the top of bank into a more naturalized shoreline, similar to what was recently completed at Rotary Park. This design meets the permitting requirements by being more hydrologically stable to waves and high

water levels, and improves the environmental values in the area. As the peninsula is an erosional area, and not depositional like other areas at Willow Beach Park, placement of finer grained sands would not withstand the erosive forces from waves on Okanagan Lake.



Photo 1 – Rotary Beach with riparian planting at top of bank

Based on draft designs that had met the Provincial permit requirements, the project was tendered on March 10, 2020. Of the pre-qualified contractors, two attended the non-mandatory site visit.

Landmark Solutions was the only contractor to submit a bid, with the other contractor who attended the meeting citing that they were too busy to submit.

COUNCIL REPORT/RESOLUTION HISTORY:

Date	Report Topic/Resolution	Resolution No.
19-11-2019	2017 Flood Recovery Update	N/A

FINANCIAL IMPLICATIONS:

Per the City's Purchasing Policy, the Willow Park Shoreline Recovery Works will be awarded to Landmark Solutions Ltd., for a total construction value of \$471,314.50 excluding GST. This total price is above the consulting engineers estimated construction value, however the contractor provided the following rationale for the pricing:

- Covid-19 and the spatial separation of workers onsite, the challenges with having different crews shift work onto the project and shared equipment, etc.
- The constraints associated with the adjacent and concurrent Gellatly Bridge Project. Constraints like site access, a lack of street staging areas, speciality vehicle access/egress, and new infrastructure had not been fully factored into the original consulting engineers cost estimate.

While the construction value is higher than the consulting engineers estimate, it is within the total budget of the 2017 Flood Recovery project budget. It should be further noted that this project is funded up to 80% by the Disaster Financial Assistance Program.

ALTERNATE MOTIONS(S):

1. **THAT** Council direct staff not to proceed with the proposed recovery of Willow Park, and find temporary alternate solutions to repair the gabion baskets.

REVIEWED AND APPROVED BY:

Allen Fillion, Director of Engineering & PW
Warren Everton, Director of Finance/CFO
Tracey Batten, Deputy CAO/Corporate Officer
Paul Gipps, CAO

PowerPoint: Yes ☐ No ☒