



INFORMATION ONLY COUNCIL REPORT
Engineering / Public Works
For the November 19, 2019 Council Meeting

DATE: October 28, 2019
TO: Paul Gipps, CAO
FROM: Mark Roberts, Flood Recovery Supervisor
RE: 2018 Flood Recovery Update

BACKGROUND:

The Central Okanagan experienced high creek water discharges during the 2018 freshet in May and June. The Event was triggered by rapid melting of a much higher than normal snowpack. The BC River Forecast Centre (BCRFC) snow survey bulletin from May 1st, 2018 showed Okanagan snowpack at 206% of normal. Higher than normal temperatures in early May, combined with rainfall substantially reduced the snowpack, with the BCRFC bulletin reporting snowpack had decreased to 126% of normal by May 15th and by June 1st, it was down to 51%. It has been estimated that the City of West Kelowna experienced a return interval of 1 in 50-year event.

As a result of this rapid melting, the City of West Kelowna identified 8 different recovery projects on Smith, McDougall and Powers Creeks, and other unnamed drainage ditches.

Identified Projects

| Project # | Project Name | Brief Description of Work | Public Infrastructure at Risk | Estimated Recovery Cost | Recoverable Up to 80% | City Portion 20% minimum | Status |
|------------------|------------------------------------|--|---|--------------------------------|------------------------------|---------------------------------|--|
| 1 & 3 | Upper & Lower McDougall Creek | Install coffer dam to isolate work area, use pumps to redirect creek around work zone, excavate creek, truck material offsite, rebuild creek channel and revegetate | Sewer, water and storm infrastructure, communications, hydro and gas infrastructure | \$ 390,561 | \$ 312,449 | \$ 78,112 | Winter 19/20 |
| 2 | Middle McDougall Creek | Assessment to determine in public infrastructure was at risk | None | \$ 12,180 | \$ 9,744 | \$ 2,436 | Complete |
| 4 | Doucette Road | Project re-assessed. No recovery required. | Doucette Road | \$ - | \$ - | \$ - | Cancelled |
| 5 | Deer Ridge Park | Project re-assessed. No recovery required. | Deer Ridge Park | \$ 432 | \$ 346 | \$ 86 | Cancelled |
| 6 | Majoros Pond | Establish machinery access, install coffer dam to isolate work area, use pumps to redirect creek around work zone, excavate sediment and Majoros Ponds, truck material offsite, rebuild ponds and revegetate | Majoros Park, Witt Road | \$ 300,367 | \$ 240,294 | \$ 60,073 | Construction Complete. Close Out Reporting Pending. |
| 7 | Powers Creek Water Treatment Plant | Establish machinery access, install coffer dam to isolate work area, use pumps to redirect creek around work zone, excavate forebay pond area | Powers Creek Water Treatment Plant | \$ 421,757 | \$ 337,406 | \$ 84,351 | Construction Complete. Close Out Reporting Pending. |

| | | | | | | | |
|---|-------------------------------------|--|--|--------------------|---------------------|-------------------|--------------|
| 8 | Inverness Sediment Pond | Establish machinery access, install coffer dam to isolate work area, use pumps to redirect creek around work zone, excavate sediment pond, repair or replace outfall, rebuild ditch line downstream and revegetate | Webber Road Community Centre, Inverness Road, Webber Road Community Park | \$ 138,000 | \$ 110,400 | \$ 27,600 | Winter 19/20 |
| 9 | Bartley Works Yard Sand Bag Removal | Sorting of sandbags from associated sand material, hauling material out of Yard, and grading/levelling of ground. | Bartley Works Yard | \$ 13,514 | \$ 10,811 | \$ 2,703 | Complete |
| | | | Total | \$1,276,379 | \$ 1,021,103 | \$ 255,276 | |

FINANCIAL IMPLICATIONS:

The total approved cost for the 2018 flood recovery is \$2,502,763. Based on current projections, project estimates are trending below the estimated budget.

| 2018 Freshet Flood | Estimate of total Recovery Costs |
|--|---|
| Total Flood Recovery Budget | \$ 2,502,763 |
| Eligible Recovery Up to 80% | \$ 2,002,210 |
| West Kelowna Non-Recoverable 20% minimum | \$ 500,553 |

Cost Summary to Date

| | |
|---|--------------|
| 2018 Freshet Flood Total Expenses Spent to Date | \$ 618,862 |
| 2018 Remaining Flood Recovery Budget | \$ 1,387,888 |
| 2018 Remaining Administrative Costs | \$ 496,013 |
| | |
| DFA Recovery Claim Submission Total* | \$ 0 |
| DFA Recovery Payment to Date | \$ 0 |
| Non-Eligible Recoverable items to Date | \$ 0 |

* Note that Recovery Claims have not yet been submitted as project Close Out Reports are still being finalized before Recovery Claims can be submitted to DFA.

REVIEWED AND APPROVED BY:

Allen Fillion, Director of Engineering and Public Works
Tracey Batten, Deputy CAO/Corporate Officer
Warren Everton, Director of Finance/CFO
Paul Gipps, CAO

PowerPoint: Yes No