



Capital Budget Request - DESIGN & CONSTRUCTION

Project Name **Storm/Sewer/Water Upgrades in Mackenzie/Beacon Hill - Const** \$ **50,000,000**

Order Code **601708** Project Location **Gregoire**

Project Category **Environmental** Ward **1 - Fort McMurray**

Type of Project **Lifecycle - Construction** Municipal Function **37 - Storm Sew & Drainage**

Project Description and Scope

As a result of the July 2016 storm event and as evident with prior year storms, the Mackenzie and Gregoire areas experienced significant overland flooding including flooding of major arterial roads. An infrastructure review recommended numerous upgrades of the storm system, the sanitary sewer system, and the water mains. The scope of the project is to increase the size of the aging water mains (1973-74) to meet current fire flow demands (including the watermain feeding the Mackenzie Reservoir and pumphouse from the Beacon Reservoir and pumphouse) and addressing the required upgrades to the storm and sanitary systems. The watermain upgrades will also provide increased water pressure to the residents in the area (both Beacon Hill and Mackenzie)

Part of the water upgrades is the design of the Beacon Hill water line, which crosses into Mackenzie. This was identified in the Water Master Plan, and also impacts fire flow. The design of the Beacon Hill water line has previously been completed as part of another project, and that work will be updated in this project.

A major benefit with this scope of work is the sanitary sewer/storm system will be impacted only once for the construction of water/sewer/storm instead of addressing watermains and sanitary/storm separately. This work will be coordinated with Recovery projects to ensure there is no duplication or overlap.

Project Cash Flows

Year	Total Annual Cost	Federal Grant	Provincial Grant	Reserve	Other
2019 & Prior	4,000,000				
2020	5,000,000				
2021	10,000,000				
2022	10,000,000				
2023	10,000,000				
2024	11,000,000				
2025	-				
Thereafter	-				
Total Budget	50,000,000	-	-	-	-

Additional Funding Details

Business Case created by Mizan Rahman

Project Sponsor Branch Engineering

Project Sponsor Department Engineering Services

Project Delivery Branch Engineering

Project Delivery Department Engineering Services