

Report to Council



Date: August 13, 2018
File: 1890-15
To: City Manager
From: Rod MacLean, Utility Planning Manager
Subject: Budget Amendment for the Royal View Hydrogeological Investigation

Recommendation:

THAT Council receives for information, the report from the Utility Planning Manager dated August 13, 2018, with respect to the Budget Amendment for the Royal View Hydrogeological Investigation;

AND THAT the 2018 Financial Plan be amended to include up to \$80,000 funded from the Slope Stability reserve for the Royal View Hydrogeological Investigation.

Purpose:

To amend the 2018 Financial Plan in order to support the Royal View hydrogeological investigation.

Background:

The City is looking to conduct assessments to better understand or identify the probable cause(s) of a small area of slope instability on public land adjacent to Royal View Drive near Royal Pine Drive. Groundwater data levels have been collected by the City for several years using piezometers installed along the slope area.

The slope slides occur infrequently, and ortho-photographs show these incidents taking place as far back as the 1950's. In 2017 and 2018, the data collected demonstrate that the latest slides appear to coincide with elevated groundwater levels, although the analysis is not conclusive. The City's engineering consultants, to date, have only been able to assess localized public safety conditions downhill of the slide after the event. The soils in this area contain significant silt levels content, making it difficult to drain quickly or install wells to draw water levels down. The City has been active in working with the landowner and business at the base of the hill to address these concerns. There are no permanent solutions identified, to date, to mitigate this issue.

The City has requested a proposal from Golder Associates Ltd. to analyze, in detail, the years of collected piezometer data, local studies, compile soils and geotechnical data, and model the process from a more regional level, including uphill ponds such as Kathleen Lake.

The goal is to further define the problem, with the hope of recommending reasonable short and long term solutions to mitigate this issue. A long term solution and capital project is not anticipated to be proposed in the 2019 budget cycle, so interim operational measures will be required during this period.

The proposal has been submitted for a price of \$69,811.00, not including GST. Staff anticipate some additional site and access work in the park, and is therefore making a total budget request of \$80,000.

Photo 1: Royal View Scarp. 16 July 2018



Internal Circulation:

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Community Planning Department Manager
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Divisional Director, Infrastructure
Financial Planning Manager
Infrastructure Delivery Manager

Risk Manager
Transportation Engineering Manager
Utility Services Manager

Financial/Budgetary Considerations:

The costs associated with the Royal View Hydrogeological Investigation is not part of the City's current financial plan. The 2018 Financial Plan will require an addition of up to \$80,000 funded from the Slope Stability reserve.

Considerations not applicable to this report:

Legal/Statutory Procedural Requirements:

Legal/Statutory Authority:

Existing Policy:

Personnel Implications:

External Agency/Public Comments:

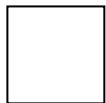
Communications Comments:

Alternate Recommendation:

Submitted by:

Rod MacLean, P. Eng., Utility Planning Manager

Approved for inclusion:



A. Newcombe, Divisional Director, Infrastructure

cc: City Clerk
Deputy City Manager
Divisional Director, Community Planning & Strategic Investments
Divisional Director, Corporate Strategic Services
Divisional Director, Financial Services
Divisional Director, Human Resources
Divisional Director, Infrastructure

Figure - Site Plan (From Golder, 2018, Technical Memorandum:
Review of Site Conditions. 16 July 2018)

