



**CITY OF HAMILTON**  
**PUBLIC WORKS DEPARTMENT**  
**Corporate Assets and Strategic Planning Division**

<b>TO:</b>	Chair and Members Public Works Committee
<b>COMMITTEE DATE:</b>	January 12, 2015
<b>SUBJECT/REPORT NO:</b>	Policy 11 Single Source Provider for Red Hill Creek In-Channel Repairs at King's Forest Golf Course (PW15004) - (Ward 5)
<b>WARD(S) AFFECTED:</b>	Ward 5
<b>PREPARED BY:</b>	Rom D'Angelo Director, Facilities Management & Capital Programs (905) 546-2424, Extension 4617  Rob Gatto Manager, Sports and Entertainment (905) 546-2424, Extension 5448
<b>SUBMITTED BY:</b>	Gerry Davis, CMA General Manager Public Works Department
<b>SIGNATURE:</b>	

**RECOMMENDATION**

That the General Manager of Public Works be authorized and directed to retain R & M Construction as a Procurement Policy #11 - Single Source Provider, to undertake the in-channel repairs to 3km of the Red Hill Creek that runs through King's Forest Golf Course at an upset limit of \$1.1 million to be funded from the Red Hill Creek Project ID 4060389014 (Mud to Greenhill-RHC) and Project ID 4060689025 (Con Grow-Install & Maint. Plant Mat.).

**EXECUTIVE SUMMARY**

It is imperative that repairs be made to 3km of the Red Hill Creek through King's Forest Golf Course to prevent any further damage. As per the Procurement Policy #11 - Non Competitive Procurements, staff is recommending single sourcing R & M Construction to complete the emergency in-channel repairs to the creek. R & M Construction was awarded the original tender, and has been the only contractor to work on the 7.6kms of the Red Hill Creek since the relocation/rehabilitation that started in 2003/2004 and completed in 2006.

In recent years King's Forest Golf Club has experienced major floods as a result of the "100 year storm" events that are now hard to predict and occur more frequently. These events have significantly affected the operation of the golf course. It is has been determined that erosion and sediment has occurred in the Red Hill Creek through King's

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Forest, from the flooding storm events that occurred in 2009, 2011 and 2012. Consequently from the large and heavy storm events, the water levels have breached the embankment of the creek submerging the surrounding areas; holes 1, 2, 3 and 11 were affected significantly. Operationally, three existing bridges were replaced, in length and width, with only minor adjustments to the creek embankment.

Another contributing factor that has led to these emergency repairs has been the deposition from the Buttermilk Falls upstream from King's Forest that requires follow up to ensure that the erosion with Buttermilk Creek does not result in valley instability downstream through King's Forest Golf Course.

Staff retained AMEC Environment & Infrastructure Services to address the design, Regulatory approvals, and permits. The Hamilton Conservation Authority and the Department of Fisheries and Oceans have granted the approvals, permits, and a timeframe to begin the in-stream repairs. The timeframe and window of opportunity to work in the creek is July 1<sup>st</sup> to March 30<sup>th</sup>. If this recommendation is approved, the in-stream repairs are scheduled to occur immediately throughout the Winter months of 2015 (January to March), to ensure playability of the golf course for the Spring of 2015.

Works are to be funded from the following Red Hill Creek, Project ID 4060389014 Mud to Greenhill - RHC and Project ID 4060689025 Con Grow-Instal & Main Plant Mat.

There is urgency for this work to be completed immediately to avoid future floods and erosion events to exacerbate the problems and thereby place the City and King's Forest Golf Course at risk.

***Alternatives for Consideration - See Page 3***

**FINANCIAL - STAFFING - LEGAL IMPLICATIONS**

Financial: Works are to be funded from the following Red Hill Creek, Project ID 4060389014 Mud to Greenhill - RHC and Project ID 4060689025 Con Grow-Instal&Main Plant Mat.

Staffing: There are no staffing implications related to the recommendations in this report.

Legal: There are no legal implications related to the recommendations in this report.

**HISTORICAL BACKGROUND**

As part of the Red Hill Valley Project it was identified in the early 2000's that the 7.6km of the Red Hill Creek (of which 3km runs through King's Forest Golf Course) was eroding rapidly and the fishery was significantly degraded. The plan was to realign and lengthen the creek based on natural channel techniques. This would revitalize the creek and improve fish habitat significantly. This work was completed by R & M Construction in the Spring of 2006.

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In recent years the “100-year storm” has been frequent and unpredictable. Large and heavy storm events in 2009, 2011 and 2012 were very impactful to the golf course. It is evident that erosion and sediment has occurred in the Red Hill Creek as a result of these major events. On each occasion R & M Construction were retained to make in-channel repairs to the creek. As well, staff had to replace three existing bridges, in length and width to accommodate the in-channel adjustments.

In 2013, AMEC Environment & Infrastructure Services were retained to assess the condition of the creek; develop a strategy to stabilize the watercourse through King's Forest Golf Course; and to produce a design and execution plan. AMEC has been delegated to act on behalf of the City of Hamilton to engage in discussions and to assemble all permitting packages for Hamilton Conservation Authority and Department of Fisheries and Oceans to ensure the proper regulatory approvals are in place before site mobilization takes place.

The timeframe to complete the in-channel repairs to 3km of the Red Hill Creek is July 1<sup>st</sup> to March 30<sup>th</sup>. In-stream repairs are scheduled to occur throughout the Winter months of 2015, to ensure playability of the golf course for the Spring of 2015.

### **POLICY IMPLICATIONS AND LEGISLATED REQUIREMENTS**

Procurement Policy - Section 4.11 - Policy #11 - Policy for Negotiations requires that Council approval be obtained for any Single Source of \$250,000 or greater.

### **RELEVANT CONSULTATION**

Public Works Department: Engineering Services Division  
Corporate Services Department: Procurement; Finance & Administration  
AMEC Environmental & Infrastructure Consulting Services

### **ANALYSIS AND RATIONAL FOR RECOMMENDATION**

R & M Construction have been on the Red Hill Creek realignment project from commencement which goes back to the early 2000's. In addition, after each storm event (2009; 2011; 2012) which caused significant damage to the creek and golf course, R & M Construction was brought in to make necessary emergency repairs to the creek. R & M Construction bring continuity and expertise relating to the past works conducted in the creek and has a firm understanding of natural channel design and construction and surrounding ecosystems. Given the sensitivity of this assignment, discontinuing their involvement could be detrimental to the creek repair and potentially increase the risk to the City.

### **ALTERNATIVES FOR CONSIDERATION**

**Alternative - Request for Tender (RFT)** is an option for consideration, but there are two cautions to be aware of. Firstly, there would be a delay in construction which would postpone the current schedule to next Fall/Winter and could potentially put the golf course season in jeopardy if a significant storm event occurs this Spring or Summer.

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Secondly, it is difficult to establish a firm scope of work; the preferred method would be managing a contract on time and material (T & M) for this assignment. Another contractor other than R & M Construction not understanding the magnitude and sensitivity of this project and not having direct intimate knowledge of the Red Hill Creek could be problematic whereby the schedule and budget may be in jeopardy. R & M Construction brings past experience and continuity of site specific knowledge to an already sensitive ecosystem.

**ALIGNMENT TO THE 2012 - 2015 STRATEGIC PLAN**

**Strategic Priority #1**

A Prosperous & Healthy Community

*WE enhance our image, economy and well-being by demonstrating that Hamilton is a great place to live, work, play and learn.*

**Strategic Objective**

- 1.2 Continue to prioritize capital infrastructure projects to support managed growth and optimize community benefit.
- 1.6 Enhance Overall Sustainability (financial, economic, social and environmental).

**Strategic Priority #3**

Leadership & Governance

*WE work together to ensure we are a government that is respectful towards each other and that the community has confidence and trust in.*

**Strategic Objective**

- 3.1 Engage in a range of inter-governmental relations (IGR) work that will advance partnerships and projects that benefit the City of Hamilton.
- 3.2 Build organizational capacity to ensure the City has a skilled workforce that is capable and enabled to deliver its business objectives.
- 3.3 Improve employee engagement.
- 3.4 Enhance opportunities for administrative and operational efficiencies.

**APPENDICES AND SCHEDULES ATTACHED**

None