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**REPORT TO:** Mayor and Members of Council  
**DATE:** November 8, 2017  
**FROM:** Tara Clayton, Public Works Manager  
**SUBJECT:** Trillium Landfill Excavation 2017

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## **RECOMMENDATION**

**THAT council authorize the Public Works Manager to negotiate and enter into an agreement with DeKay Construction Limited for the Excavation works at Trillium Landfill, based on the terms and conditions set out in the Request for Proposal and on such other terms and conditions satisfactory to the Public Works Manager, at a cost not to exceed \$49,240 (exclusive of taxes).**

## **BACKGROUND:**

Trillium Landfill site is currently under a field alert with the Ministry of Environment and Climate Change (MOECC) and the municipality is expecting the amended approval requirements to its Environmental Compliance Approval.

Health and safety concerns related to the height of the slope and size of the active working face have been identified at Trillium Landfill. The MOECC has noted the need for a leachate management plan and as of 2017 the municipality now has a draft leachate management plan for Trillium landfill. However, the plan cannot be implemented due to the current status of the waste cell. The active waste face needs to be regraded, compacted, covered and containment areas installed to capture the leachate in a way that is accessible for pumping and hauling offsite.

Staff are bringing forward the results of a request for proposal to award a contract for the excavation work at Trillium Landfill.

**ANALYSIS:**

The municipality received several proposals for excavation work at Trillium Landfill, all of which are noted below in Table 1. The proposals were reviewed by the public works manager and the chief administrative officer based on experience, staff, related projects, testimonials, resources, project schedule, timeframe for completion, project management and cost.

**Table 1**

<b>Company</b>	<b>Cost (HST not included)</b>
R. Russell Construction	\$61,805
J-AAR Excavating Limited	\$84,300
Shouten Excavating	\$91,400
DeKay Construction Limited	\$49,240

Staff recommends hiring DeKay Construction for this project at Trillium Landfill based on the above noted criteria.

**FINANCIAL IMPLICATIONS:**

The cost of this work was not in the 2017 budget. However, there was money budgeted for site investigation at Trillium Landfill and there is still money to go toward this work but not enough to cover the entire cost so some money will need to be used from the Trillium Landfill reserve.

**LEGAL IMPLICATIONS:**

The municipality must comply with all applicable law related to waste management, environment, water, health and safety. There is potential for legal implications if the works are not completed.

**OPERATIONAL IMPLICATIONS:**

The current slope and active working face on site is a health and safety concern for both the public and the contractor and should be addressed. Completing these works will also increase the compaction of the current waste cell and hopefully provide more airspace and thus increase the useful life of the cell for accepting waste.

**ASSET MANAGEMENT IMPLICATIONS:**

PS 3270 (Solid Waste Landfill Closure and Post-Closure Liability) requires that the accounting already accrues for a liability for the costs on an ongoing basis as capacity is used. Estimates of costs should be reviewed annually with detailed studies. Budgeting for the annual operating budget of a functioning landfill should include the accrual of closure and post closure

costs in each year of operation. In theory, the annual operating budget for landfills should be financed out of the tipping fees. If accrued liability for closure and post-closure costs are insufficient, the overage should be an expense in the year(s) in which it occurs.

**RISK MANAGEMENT IMPLICATIONS:**

There are risks associated with not completing this project. The municipality does not have the ability to manage the leachate in an effective and environmentally safe manner, and there are health and safety concerns for operations and the public, there are vector issues due to the lack of compaction and cover, and the MOECC has noted it in several inspection reports requesting the municipality address the issue.

Prioritization of infrastructure, operational activities, and waste types to reduce risks to human health and the environment should be part of risk-based approach to waste management.

**ENVIRONMENTAL/CLIMATE CHANGE IMPLICATIONS:**

There are positive impacts this project will have on environment, such as improved management of waste on the site, reduced vector issue, opportunity to improved control of leachate which will protect the water course and ground water in the area.

**RELATIONSHIP TO STRATEGIC PLAN:**

- Upholding a healthy & safe environment

**ATTACHMENT(S):**

- Request for Proposals for Excavation at Trillium Landfill Review - [http://www.southwestmiddlesex.ca/Public/Page/Files/43\\_rfp%20for%20excavation%20sept%202017.pdf](http://www.southwestmiddlesex.ca/Public/Page/Files/43_rfp%20for%20excavation%20sept%202017.pdf)

**CONSULTED:**

- Other Waste Management Staff at various municipalities
- Brent Langille, RWDI
- Jill Bellchamber-Glazier, CAO/Clerk Southwest Middlesex