



City of  
**Peterborough**

---

**To:** Members of the Waste Management Steering Committee

**From:** W. H. Jackson, Director of Utility Services

**Meeting Date:** September 8, 2014

**Subject:** Report WMC14-011  
TSSA Inspection of Peterborough County/City Waste  
Management Facility - Update

---

## **Purpose**

To update the Waste Management Committee on the TSSA Inspection of the Peterborough County/City Waste Management Facility and to suggest a course of action to satisfy TSSA requirements.

## **Recommendations**

That the Waste Management Committee endorse the recommendations as outlined in Report WMC14-011 dated September 8, 2014 of the Director of Utility Services as follows:

- a) That Report WMC14-011 dated September 8, 2014 providing updated information on the inspection of the Peterborough County/City Waste Management Facility undertaken by a representative of the Technical Standards and Safety Authority be received for information; and
- b) That staff be requested to take all necessary steps to upgrade and refurbish the Peterborough County/City Waste Management Facility flare as described in Report WMC14-011.

## **Budget and Financial Implications**

The estimated cost to undertake the improvements/adjustments required by TSSA is \$160,000 fund for which are available in the 2013 and previous years' Capital Landfill budgets.

## **Background**

On May 29, 2013 a Technical Standards and Safety Authority (TSSA) representative undertook an unscheduled inspection of the Waste Management Facility (the "Landfill"). Since that time, two formal submissions have been made to TSSA:

- August 26, 2013 in response to the initial inspection detailing the commitment to repair/update specific items identified by TSSA and also requesting grandfathering of the existing situation in some areas; and
- January 15, 2014 requesting a variance for the operation of the existing flare.

Interspersed between the two formal submissions were numerous e-mails, telephone calls and site meetings between TSSA representatives, the Landfill consultant and staff.

### **1. Existing Situation and Recommendations**

Appendix A is a recent memorandum from the Landfill consultant that highlights what has happened since the original TSSA inspection and what needs to happen before January 31, 2015.

Based on discussions with TSSA representatives and consultations with certified contractors, the Landfill consultant recommends the following actions be undertaken immediately:

- Retrofit various components of the flare compound (\$83,000);
- Restore the existing flare (\$35,000 to \$50,000); and
- Upgrade various electrical components and controls (\$18,000).

An optional item (upgrade existing burner table) at a cost of \$6,000 has been left to the discretion of the Corporation.

## 2. Discussion

There is little choice when it comes to satisfying TSSA requirements.

An alternative to the items listed in Section 1 is to replace the flare and components in their entirety. The cost of this is estimated at \$430,000 and, in consideration of the limited use of the flare now that the Landfill Gas Utilization Project is operational, it makes more sense to undertake the upgrades proposed by the Landfill consultant.

Elimination of the flare entirely is not a feasible option inasmuch as the Landfill requires a dedicated backup to the Landfill Gas Utilization Project for odour control.

By spending upwards of \$160,000 now, it is expected that outside of TSSA inspections, little rehabilitation money will need to be spent on the flare and its components for 10 years.

For the information of Committee, over the last 10 years only about \$50,000 has been spent on the flare and its components.

## 3. Next Steps

If the Waste Management Committee accepts the recommendations of this report, City staff will request permission to single source the upgrade work to Enviro EMD Inc through the City Purchasing Policy. In November 2013, Enviro EMD Inc. was the only contractor to provide a quote to complete the original anticipated work and, in the intervening period met on a number of times with the consultant and TSSA representatives to verify what work needs to be done and to confirm TSSA acceptance of the work program.

Submitted by,

W. H. Jackson  
Director, Utility Services

Contact Name:  
W. H. Jackson  
Director, Utility Services  
Phone: 705-742-7777 Ext 1894  
Fax: 705-876-4621  
E-Mail: [wjackson@peterborough.ca](mailto:wjackson@peterborough.ca)

Attachment:

Appendix A: Memorandum dated July 21, 2014 from UEM Inc. entitled "Waste Management Facility Flare Recommendation"