



## Sustainable Development

Environmental Stewardship Division  
Environmental Approvals Branch  
123 Main Street, Suite 160 (Box 80), Winnipeg, Manitoba, Canada R3C 1A5  
T 204 945-8321 F 204 945-5229  
[www.gov.mb.ca/conservation/eal](http://www.gov.mb.ca/conservation/eal)

**File: 5818.00**

October 31, 2016

Mr. Tim Oliver  
Municipal Waste Management Ltd.  
Box 459  
Souris, MB R0K 2C0

Dear Mr. Oliver:

**Re: Municipal Waste Management Ltd Class 1 Waste Disposal Ground, Licence 3181 – Request for Alteration for Groundwater Sampling Parameters**

Receipt of your October 7, 2016 letter is acknowledged as a notice of alteration in accordance with section 14 of *The Environment Act*.

The requested change to the development as Licenced is the replacement of Appendix 'A' Comprehensive Water Quality Chemical and Microbiological Parameters with the recently issued Baseline Water Chemistry Parameters as found in the Standards for Landfills in Manitoba (2016).

The potential environmental effect of the requested change to the Development as Licensed is insignificant and considered to be a minor alteration in accordance with section 14(2) of *The Environment Act*. The requested change to the Development as described in the October 7, 2016 submission is hereby approved and the new sampling parameters are attached to this letter as Table 1.

If you have any questions regarding the revised sampling parameters, please contact Mr. Peter Crocker, Environment Officer at 204-726-6565 or by electronic mail at [peter.crocker@gov.mb.ca](mailto:peter.crocker@gov.mb.ca).

Yours sincerely,

Tracey Braun, M.Sc.  
Director

cc: Don Labossiere/Tim Prawdzik/Peter Crocker, Environmental Compliance and Enforcement Branch  
Public Registries

**APPENDIX A (REVISED SEPTEMBER 2016)**  
**TO ENVIRONMENT ACT LICENCE NO. 3181 Clauses 80 & 82**  
**Baseline Water Chemistry Parameters**

<b>Chemical Parameters</b>		
<b>Inorganics</b>		
Alkalinity – Total		Magnesium – Dissolved
Ammonia – Total		Manganese – Dissolved
Arsenic – Total		Mercury – Dissolved
Barium – Dissolved		Nitrate - Reported as N
Boron – Dissolved		Nitrite - Reported as N
Cadmium – Dissolved		Total Kjeldahl Nitrogen – Reported as N
Calcium – Dissolved		pH
Calcium Carbonate		Total Phosphorous
Chloride		Potassium – Dissolved
Chromium – Dissolved		Silicon – Dissolved
Conductivity		Sodium – Dissolved
Copper – Dissolved		Total Dissolved Solids (TDS)
Iron – Dissolved		Sulphate
Lead – Dissolved		Uranium – Dissolved
		Zinc – Dissolved
<b>Volatile Organic Compounds (VOC's)</b>		
BTEX		
<b>Other Organics</b>		
Biological Oxygen Demand (BOD)		Chemical Oxygen Demand (COD)
Dissolved Organic Carbon (DOC)		
<b>Field Parameters</b>		
pH		Groundwater Elevation
Conductivity		Dissolved Oxygen
Temperature		

Note: All metals (except Arsenic) are to be sampled for dissolved analysis. Dissolved samples should be filtered in the field and preserved in the field at time of sampling. If dissolved samples are not to be filtered and preserved in the field then Sustainable Development and the Laboratory must be notified prior to sampling.