

September 16, 2019

Dear All:

You are receiving this communication to keep you apprised of the status of the ongoing environmental monitoring activities associated with the closed Waste Management (WM) Landfill property.

Under the Environmental Compliance Approval (ECA) Conditions set forth in the Environmental Monitoring Plan (EMP) dated April 15, 2016 and ordered by the Environmental Review Tribunal (ERT), WM has notified the MOECC District Manager of results from the most recent sampling event conducted on August 23, 2019.

We are providing, for your information, the notice supplied to MOECC on September 16, 2019. The results outlined in this notice are related to concentration exceedances at groundwater monitoring well M185-1, located within the proposed Contaminant Attenuation Zone (CAZ).

All results are generally consistent with historical results and will be evaluated in the fall 2019 semiannual report that will be issued by January 15, 2020.

Regards,

Bill McDonough
Manager, Richmond Landfill
Waste Management of Canada Corporation

Encl.



MEMORANDUM

DATE: September 16, 2019

TO: Trevor Dagilis, District Manager, Ministry of the Environment, Conservation

and Parks (MECP)

CC: David Arnott, Kyle Stephenson, Shawn Trimper and Peter Taylor (MECP)

Chris Prucha, Bill McDonough and Jim Forney (WM)

FROM: François Richard and Madeleine Corriveau (BluMetric)

PROJECT NO: 190161-03

SUBJECT: Groundwater Monitoring Well M185-1 Quarterly Sampling Results,

WM Richmond Landfill, Town of Greater Napanee

This memorandum is provided on behalf of Waste Management of Canada Corporation (WM) as required by Condition 8.7 of Environmental Compliance Approval (ECA) No. A371203 for the Richmond Landfill, Town of Greater Napanee, Ontario. This requirement is outlined in the Environmental Monitoring Plan (EMP) for the site¹, implemented on April 16, 2016 on an interim basis as ordered by the Environmental Review Tribunal (ERT) Order dated December 24, 2015. Condition 8.7 of the ECA stipulates that monitoring results shall be reported to the MECP District Manager within 48 hours of the determination of the exceedance (initial data screening) if they meet the following condition:

• any <u>off-site</u> exceedance of the applicable criteria for groundwater (Reasonable Use Limits (RUL)) or surface water (Provincial Water Quality Objectives (PWQO))

RESULTS

Groundwater sampling was conducted at monitoring location M185-1 on August 23, 2019. The sample was analyzed for the list of general and inorganic parameters and volatile organic compounds listed in the EMP (Tables 3 and 4, respectively). This verification sampling event is the first of two supplementary quarterly sampling events that were added by WM as requested by MECP as a precautionary measure following a false positive 1,4-dioxane result at this location during the spring 2019 monitoring event. The next supplementary quarterly event will be conducted during winter 2020.

¹ Environmental Monitoring Plan, WM Richmond Landfill, Town of Greater Napanee, Ontario, rev. No.05, prepared by BluMetric Environmental Inc., dated April 2016



BluMetric Environmental Inc.

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The analytical results show the presence of parameters that exceeded their respective Reasonable Use Limit (RUL) criteria, as summarized in **Table 1**. Note that the result for 1,4-dioxane is below the detection limit as anticipated.

Table 1: RUL Exceedances at Groundwater Monitoring Well M185-1 (August 23, 2019)

			M185-1
Parameter	Units	RUL*	2019-08-23
Chloride	mg/L	132	460
Sodium	mg/L	106	350
Total Dissolved Solids	mg/L	465	1,200

^{*} RUL: Reasonable Use Limit

CLOSING

The results from the latest sampling event are generally consistent with those from previous sampling events and are indicative of naturally poor (saline) groundwater at this location. Complete results will be reported as part of the fall 2019 semi-annual monitoring report by January 15, 2020 as required by ECA Condition 14.1.

We trust the above information is satisfactory. Please do not hesitate to contact the undersigned if you have any questions or need further information.

Respectfully submitted,

BluMetric Environmental Inc.

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Madeleine Corriveau, M.Sc., P.Geo.

Senior Environmental Geochemist

