



August 22, 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 as a part of scheduled summer 2019 environmental monitoring event conducted on August 8, 2019.

We are providing, for your information, the notice supplied to MOECC on August 22, 2019. All results outlined in this notice are related to concentration exceedances at upstream and downstream surface water sampling locations within the proposed Contaminant Attenuation Zone (CAZ).

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

Regards,

Bill McDonough
Manager, Richmond Landfill
Waste Management of Canada Corporation

Encl.



MEMORANDUM

DATE: August 22, 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: Notification of Off-Site Exceedances, 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 off-site exceedance of the applicable criteria for groundwater (Reasonable Use Limits (RUL)) or surface water (Provincial Water Quality Objectives (PWQO))

RESULTS

Surface water sampling was conducted at two (2) monitoring locations on August 8, 2019 after a summer rain event with precipitation greater than 25 mm (within 24 hrs) following the requirements outlined in the latest EMP for the site. All other surface water monitoring locations were dry.

The analytical results for samples show the presence of parameters that exceeded their respective PWQO criteria, as summarized in **Table 1**.

These include:

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



- Unionized ammonia, phenols, total phosphorus, chromium-III, cobalt, copper, iron and zinc at upstream sampling location S18; and,
- Unionized ammonia, total phosphorus and iron at downstream location S20.

Table 1. WM Richmond Landfill - Summary of PWQO Exceedances from Summer 2019 Surface Water Monitoring Results

Parameter	Units	PWQO*	S18	S20
			(upstream)	(downstream)
			2019-08-08	2019-08-08
Inorganic and General Parameters				
Ammonia (unionized)	mg/L	0.02	1	0.55
Phenols	mg/L	0.001	0.035	
Phosphorus (total)	mg/L	0.03	0.44	0.063
Metals				
Chromium (III)	mg/L	0.0089	0.01	
Cobalt	mg/L	0.0009	0.0033	
Copper	mg/L	0.005	0.006	
Iron	mg/L	0.3	7.7	0.74
Zinc	mg/L	0.02	0.021	

**Provincial Water Quality Objectives*

CLOSING

The results from the latest environmental monitoring event are generally consistent with those from previous sampling events, and will be reported as part of the fall semi-annual monitoring report by January 15, 2020 as required by ECA Condition 14.1.

We trust the above information is satisfactory. If you have any questions or need further information regarding the completed work please do not hesitate to contact the undersigned.

Respectfully submitted,
BluMetric Environmental Inc.



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 Senior Hydrogeologist



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 Senior Environmental Geoscientist