



April 7, 2020

Ministry of the Environment, Conservation and Parks
1259 Gardiners Road, Unit 3
Kingston, ON K7P 3J6

E-mail: thandeka.ponalo@ontario.ca

Attention: Ms. Thandeka Ponalo
Senior Environmental Officer

Re: 2019 Annual Monitoring Report
Radcliffe Waste Transfer Site, Township of Madawaska Valley, Ontario
Pinchin File: 202412

Pinchin Ltd. (Pinchin) on behalf of the Township of Madawaska Valley, completed the 2019 Annual Monitoring Report for the Radcliffe Waste Disposal Site (Site). The Site operates under Ontario Ministry of Environment, Conservation and Parks (MECP) Environmental Compliance Approval (ECA) A412901, as most recently amended on September 26, 2013, for the transfer of municipal solid waste generated within the Township of Madawaska Valley. The Site consists of 4.0 hectares (ha) of approved landfill area within 18.97 ha of licensed Site area, following the acquisition of 18.24 ha of land from the Crown for operational buffer and contaminant attenuation zone purposes in March 2010. The Site has been closed to waste disposal since 2001 and final closure activities were completed in 2006. The Site currently operates as a waste transfer station and all waste collected at the Site is transferred to the Bark Lake Waste Disposal Site for disposal. Recyclable materials from the Site are transferred directly from the Site for management.

Based on the results of the Pinchin 2019 monitoring program, the following recommendations were provided:

- Based on the results of the 2020 monitoring program, groundwater sampling should continue semi-annually at monitoring well locations MW1, MW2, MW3, MW4, MW5-I and MW5-II (spring and fall) and SW locations SW2, SW3, SW4 and SW5 (spring and fall);
- Groundwater monitoring shall be completed during the spring and fall of each year, with analyses for the comprehensive list of the parameters listed in the Site-specific ECA for the spring and fall sampling events. It is recommended that groundwater monitoring be completed during the spring and fall to allow continued trend analysis, and to determine the need and scope of a long-term monitoring program for the Site;



- Surface water sampling at monitoring locations SW2, SW3, SW4 and SW5 should also be conducted on a semi-annual basis during the spring and fall sampling events, so that potential impacts between the groundwater flow system and receptor can be evaluated based on coincident data. As such, the surface water sampling and groundwater elevation monitoring activities being conducted annually during the summer season should be replaced by the proposed fall season surface water monitoring event;
- Pinchin recommends sampling of groundwater and surface water be reduced to annually spring and fall with a monitoring report provided every second year. The results of inspection and monitoring will be reported bi-annually to the MECP. During these sampling and reporting events, it is recommended that the monitoring well network be evaluated for continued adequacy and to determine if additional sampling events are required;
- Based on the results of the 2020 monitoring program, groundwater samples collected at monitoring well MW5-II should continue to be analysed twice annually (spring and fall) for VOCs; and
- The Client should continue to ensure that the requirements as specified in the ECA are complied with.

Should you have any questions or require additional information, please do not hesitate to contact the undersigned.

Pinchin Ltd.

Prepared by:

Reviewed by:

Brandon Guzzo-Foliaro, M.Env.Sc., RESA
Senior Project Technologist – Sault Ste. Marie

Jake Rebellato, B.Sc.(Env), C.E.T., EP
Operations Manager – Sault Ste Marie

1-705-575-9207 Ext. 3508
bguzzofoliaro@pinchin.com

1-705-575-9207 Ext. 3509
jrebellato@pinchin.com

Cc: Hilary Kutchkoskie - Township of Madawaska Valley