



31 July 2024

Mark Milne
Enviroclean Landfill Solutions Ltd
41 Jefferson St.
Morden, Manitoba R6M 0B8

Dear Mark:

Re: Letter of collaboration for Enviroclean Landfil Solutions Ltd

I am writing this letter to confirm my collaborative support for Enviroclean Research Facility that houses rapid bio-digestion machines for the aerobic composting process and its produced organic compost.

The National Research Council Canada (NRC) advanced manufacturing research facility in Winnipeg, Manitoba, is home to research on the biodegradability of various materials including polymers, composites and paper-based products. This important scientific work contributes to our research and development capabilities in sustainable products used in applications such as packaging, agriculture and transportation.

One of NRC's missions is to find effective solutions to Canada's current and future environmental challenges through innovation. Our biodegradation capabilities are an ideal stage to assess end-of-life for plastic and paper materials when their waste is not suitable for reuse or recycling, such as materials that are contaminated, made out of multiple materials or collected as litter in outdoor environments. Through lab scale international standard biodegradation testing procedures, NRC strives to shorten the development of solutions and help facilitate the acceptance of these materials in industrial compost facilities.

The collaboration with Enviroclean Landfill Solutions Ltd has provided aerobic compost media that meets the criteria for compost inoculum stated in ASTM D5338 and ISO 14855 standards for laboratory trials of industrial composting conditions. This compost has demonstrated experimental validity of bioactivity in multiple trials, as sufficient biodegradation occurs for the positive reference material through measurement of carbon dioxide evolution. As well, the compost retains consistency and repeatability in water holding capacity, pH, C/N ratio, particulate size, and ash content within the range of acceptable values for these research experiments.

I look forward to continued collaboration, and the potential to assess the biodegradation of materials in industrial scale composting systems.

Sincerely,

Michael Snowdon, PhD
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Automotive and Surface Transportation
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