



ENVIRONMENTAL SERVICES MEMORANDUM

TO: MAYOR J. LEHMAN AND MEMBERS OF COUNCIL

FROM: J. THOMPSON, P.ENG., CMM III IP, PMP, DIRECTOR OF ENVIRONMENTAL SERVICES

NOTED: A. BOURRIE, RPP, ACTING GENERAL MANAGER OF INFRASTRUCTURE AND GROWTH MANAGEMENT

M. PROWSE, CHIEF ADMINISTRATIVE OFFICER

RE: 2018 ANNUAL MONITORING REPORTS - REGULATED MUNICIPAL FACILITIES

DATE: MAY 6, 2019

The purpose of this Memorandum is to provide members of Council with information related to the 2018 performance of municipal facilities which operate under a Certificate of Approval (C of A) or Environmental Compliance Approval (ECA) issued by the Ministry of the Environment Conservation and Parks (MECP). The details of facility annual performance are provided to the MECP in the form of Annual Reports prepared by the Environmental Operations Branch of the Environmental Services Department. Originals of these Reports have been submitted to the MECP in accordance with established timelines and a copy of the Reports will be made available in the Councillor's Lounge.

The Reports listed below are currently available in the Councillor's Lounge:

- Oro Biosolids Storage Facility (*C of A Number A252707*) – March 29th, 2019;
- Landfill Stormwater Management Facility (*ECA Number 1681-AFGMVU*) – March 29th, 2019;
- Landfill Site Operations (*ECA A250101*) – June 29th, 2018.

Oro Biosolids Storage Facility

The Oro Biosolids Storage Facility (BSF) is located on the 7th Line of Oro-Medonte immediately north of the Lake Simcoe Regional Airport (LSRA). The Facility provides storage for biosolids generated from the City of Barrie's Wastewater Treatment Facility (WwTF) when land application of the biosolids is not possible (i.e. winter months, wet periods, planted fields). The total storage capacity for the BSF is 61,500 m³.

The results of the 2018 Groundwater Monitoring Program indicate that groundwater quality may be affected by operations on the Site. Consequently, recommended changes to the existing Groundwater Monitoring Program include the addition and deletion of wells to allow for better profiling of the water flow, as well as changes to the testing requirements to assist with focusing on potential contaminants of concern. The City of Barrie will continue to collect representative groundwater, surface water and lagoon samples as per MECP requirements. The Lagoon Liner Inspection Program commenced in 2016 and includes the emptying, cleaning, inspecting and repairing of the liner of all three lagoons (as required) at the frequency of one lagoon annually. Inspections of Lagoon 2 and 3 were conducted November 2017 and July 2018 respectively. The resulting repairs included patching of the geomembrane linings. Lagoon 1 is scheduled for inspection in 2019.

This Report was submitted to the MECP on March 29th, 2019 and a copy has been made available in the Councillor's Lounge.



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Landfill Stormwater Management Facility

The Landfill Stormwater Management Facility is located centrally within the Landfill Site and receives surface water runoff from the following areas; Waste Segregation Pad, Compost Processing Pad, Household Hazardous Waste Depot, Commodities Storage, the Administration Building Parking Lot, and south and west sections of the Landfill Site. The Stormwater Management Facility is designed to control and improve the quality of stormwater that is discharged offsite to the storm sewer system. It is constructed on sandy soils also allowing it to function as an infiltration pond. The MECP requires the City of Barrie to sample, analyze and report on stormwater accumulations and releases.

The Environmental Compliance Approval 9817-993S4S governing this Facility was amended in March 2017 and replaced by Environmental Compliance Approval 1681-AFGMVU to include the construction of 6 additional stormwater management ponds at the Landfill Site to service the south and west sections of the Landfill Site.

In 2018 there were no releases from the Facility and compliance was maintained for the duration of the reporting period.

The Report was submitted to the MECP on March 29th, 2019 and a copy has been made available in the Councillor's Lounge.

Landfill Site Operations

The MECP requires the submission of an Annual Report by June 30th, 2019 pertaining to Landfill Site operations. Commencement of this Report has begun and will be made available in the Councillor's Lounge once complete. The previous Annual Report (dated June 29th, 2018) is available for review in the Councillor's Lounge. The 2018 Landfill Monitoring Program results will indicate that the Environmental Control Systems on site are serving their intended purpose to contain impacts from the Landfill. In early 2017 the Environmental Compliance Approval (ECA) A250101 governing site operations was amended to include:

- The extension of hours of operation from 7:00 a.m. to 7:00 p.m. as required;
- Approval for the use of Category B Compost produced at the site as an alternative cover material; and
- The construction of a new satellite Recycling Depot at the East Gate entrance including upgrades to the existing Household Hazardous Waste (HHW) Facility.

Please contact Ms. Sandra Brunet, Manager of Environmental Operations, at extension 6140 for further information.