# Brooks Road Landfill
# Public Liaison Committee
# In-Person Meeting

**March 22, 2023**

Brooks Road Landfill Site

# Overview

- Ground Rules and PLC Objectives
- Site Update
- MECP Update
- Discussion of Landfill Life Expectancy
- Site Approvals
- Other Business

# Ground Rules/ Objectives of Today's Meeting

Take the opportunity to be heard while respecting the viewpoints of others

Gain a deeper understanding of perspectives and opinions

Leave with a little more information that what you came in with

Ensure constructive dialogue that remains on topic

Begin and end on time

# Purpose and Objectives of PLC

- PLC is a condition under the Environmental Compliance Approval (ECA)
- Function in accordance with the Terms of Reference for the PLC, as amended

***"The PLC shall serve as a forum for dissemination, consultation, review and exchange of information regarding the operation of the landfill Site, including environmental monitoring, maintenance, complaint resolution, and new approvals or amendments to existing approvals related to the operation of this landfill Site."***

- PLC members and their roles
- PLC Meetings are open to the public and shall be held in public
- The PLC may hear deputations from any member of the public or interested agency pertaining to the Site and its operation

# Review of Previous Minutes

- The November 2022 PLC Meeting was completed as an in-person meeting.
- The November 2022 meeting minutes and presentation were posted to the Brooks Road Environmental website
- Question/ Comments on Draft November 2022 Meeting Minutes?

# Site Update - BRE

# Site Update

**Odour Mitigation**

- Odour control measures - misting system operating and odour control granules are utilized if required. Reducing the amount of time that hatches or lid are open to prevent odour from escaping during the loading process.
- Staff are available on-site 7-days a week when required

**Leachate Treatment Plant**

- Hauling of treated effluent to the Haldimand County treatment plant continues
- Additional hauling of raw leachate to a licenced treatment plant

# Odour Complaints Summary


**3**
Complaints


**0**
Complaint


**0**
Complaint

**Complaint Lines**

**Corporate:** 416-966-1100

**Site Specific:** (888) 402-7368

**On-site Office:** 416-389-8876

**MECP Spills Action:** (800) 268-6060

# Leachate Level Reduction Strategy

- **Increase treated effluent off-site haulage**
  - On-going
- **Work toward an ECA (sewage works) amendment application to modify the treatment system filtration technology to increase reliability and effluent production**
  - Pilot plant sand filtration will cease, membrane will continue
  - Summary report on pilot plant sand filtration will be submitted to MECP

# Hauling and Leachate Level Update

- Effluent and Leachate Summary for October 2022 to February 2023:

| Month | Volume (L) | Leachate Elevation |
|---|---|---|
| October 2022 | 667,380 | 192.3 |
| November 2022 | 175,830 | 193.1 |
| December 2022 | 651,970 | 193.2 |
| January 2023 | 2,364,360 | 192.5 |
| February 2023 | 1,429,800 | 192.2 |
| **Total** | | - |

# Schedule “C” from ECA: target leachate elevation by date (highlighted in blue)

The following Schedule "C" forms part of this Approval

**Schedule "C"**

**Table C1: Target leachate elevations to reach leachate elevation 191 m AMSL based on the date of March 27, 2020.**

| Date | Required Leachate Elevation (m AMSL) | Estimated Leachate Volume in Landfill ($m^3$) | Volume Removed in Excess of Generation ($m^3$) | Forecasted Leachate Generation Rate ($m^3$/day) | LTS Discharge to Ditch ($m^3$/day) | Required Average Excess Leachate Removal ($m^3$/day) |
|---|---|---|---|---|---|---|
| March 27, 2020 | 198.5 | 40,000 | - | 44 | 45 | 0 |
| March 27, 2021 | 196 | 28,000 | 12,000 | 44 | 45 | 32 |
| March 27, 2022 | 193.8 | 18,000 | 10,000 | 42 | 45 | 24 |
| March 27, 2023 | 192.1 | 10,000 | 8,000 | 44 | 45 | 21 |
| March 27, 2024 | 191.5 | 4,000 | 6,000 | 43 | 45 | 16 |
| March 27, 2025 | 191 | 2,000 | 2,000 | 49 | 45 | 9.5 |
| March 27, 2026 | 191 | 2,000 | 0 | 33 | 45 | 0 |

# Schedule “D” from ECA: target leachate elevation by capacity
## (estimated target elevation in blue based on tonnage and volume estimates)

The following Schedule "D" forms part of this Approval

**Schedule "D"**

**Table D1: Capacity-Based Target Leachate Elevations**

| Estimated Landfilled Volume ($m^3$) | Required Leachate Elevation (m AMSL) |
|---|---|
| 680,000 | 197.9 |
| 710,000 | 197.4 |
| 740,000 | 196.8 |
| 770,000 | 196.2 |
| 800,000 | 195.7 |
| 830,000 | 195.1 |
| 860,000 | 194.5 |
| 890,000 | 193.9 |
| 920,000 | 193.4 |
| 950,000 | 192.8 |
| 980,000 | 192.2 |
| 1,010,000 | 191.7 |
| 1,040,000 | 191.1 |
| 1,045,065 | 191.0 |

# Landfill Life Expectancy

- ~100,000 m3 capacity remaining based on annual survey (Dec 20, 2022)
- Remaining capacity varies based on waste type, compaction, tonnage received, and consolidation of existing waste within the landfill.
  - Based on theses factors, the estimated average remaining landfill life expectancy is ~ 1 year.

# MECP Update

Brooks Road Landfill Site

# Site Approvals – EA & ECA

# Site Approvals – EA

- BRE are in the middle of an Environmental Screening process to add additional capacity by 100,000 $m^3$. The approved footprint is expected to change as a result of the increase capacity

- The Environmental Screening is being conducted in accordance with the planning and design process outlined in Ontario's "*Guide to Environmental Assessment Requirements for Waste Management Projects*".

- The results of the Study will be documented in an Environmental Screening Report, which will be released for review to the public, Indigenous communities, and government agencies.

- Consultation activities are planned throughout the Screening Process (Public Open House #1 occurred in late June, 2022) and will be advertised via direct and/or electronic mail, in the local newspaper, and on the project website (www.brenvironmental.com). The next Open House is planned for June 2023.

# Other Business/ Next Meeting

- The proposed PLC Meetings for 2023 are as follows:
  - Wednesday March 22, 2023
  - Wednesday June 7, 2023
  - Wednesday November 1, 2023
- The PLC will be contacted in advance with respect to format (i.e. virtual or in-person) for the next PLC Meeting in light of any local public health or Provincial guidance on COVID-19
- Today's presentation along with the meeting minutes will be posted on the Brooks Road Environmental website