



Brooks Road Landfill Public Liaison Committee E-update

June 3, 2020



Brooks Road Landfill Site



Overview

- COVID-19
- Draft Meeting Minutes – March/20
- Site Update
- Site Approvals
- Other Business/ Next Meeting





COVID-19

- Given the current situation around COVID-19, the Ontario government has provided guidance and restrictions on public events and gatherings.
- Based on the best advice of Ontario's Chief Medical Officer of Health, the Ontario government has issued an emergency order under the Emergency Management and Civil Protection Act to prohibit organized public events and social gatherings of more than five people.
- With this in mind and in consultation with PLC Members, the June PLC Meeting will not take place in person, but rather via an e-update.
- The goal is to continue to provide information to the PLC and the broader community. This e-update will be posted on the Brooks Road website and as always, members of the PLC and public are able to contact the Brooks Road team with any specific questions/concerns.





Review of Previous Minutes

- PLC Member provided an email to the Brooks Road Team to make amendments to the Meeting Minutes as follows:
- PG 6: DB (member of the PLC) discussing leachate levels, etc. It was Dave Glenney who was asking the question.
- PG 7: The underlined sentence was never spoken and should be removed.
“Site security was raised and discussed. DM mentioned that this was brought up at the last meeting, but that BRE has not addressed it. MECP did indicate that they looked into this and they understand that it was a violation to BRE approved operations. However, TB stated that although people could access the Site they still would not have had direct access to the landfill as it is fenced off. MECP noted that they will look into this further.”
- Minutes from the March, 2020 meeting have been amended and recirculated as part of this PLC E-update





Site Update - BRE





Site Update

Odour Mitigation

- The amount of odour complaints received has substantially reduced
 - 2 complaints in April;
 - 0 verified complaints in May.
- Odour control measures - odour control granules, additional clay cover, and misting system (Staff on-Site 7 days a week if required)

Waste

- Vertical expansion amended ECA has been approved and non-hazardous contaminated soil is now being received.
- The placement strategy for the incoming materials remains as follows:
 - Initial placement in Stage 3 area to provide a thick cover which will help reduce odour.
 - Continue to place material to increase grades will allow for maximum amount of interim cover installation to further reduce leachate generation and prepare to progress final cover installation.





Site Update

Leachate Treatment Plant

- In 2020, 13,744,380 L of leachate has been treated and removed from Site.
- Continuous discharge (45 m³/day) to the roadside ditch of treated effluent started in March.
- Treated Effluent hauled to Haldimand WWTP to supplement continuous discharge at a maximum rate of 125 m³/day.

Maintenance Activities

- Intensive 48-hour cleaning process completed by membrane supplier and Plant operator.
- Equipment has been selected for leachate hardness removal to extend membrane life span.
- Dissolved Air Flotation (DAF) unit performing well.

Leachate Removal Plan

- Report submitted to the MECP outlining a 5-year plan to removal leachate in landfill to an average depth of 300mm.
- Leachate removal efforts in accordance with the report are underway.





Hauling and Leachate Level Update

- In May a sample of the leachate treatment plant effluent was identified not meeting the discharge criteria. The Leachate Treatment Plant ECA requires effluent to be sampled monthly, however BRE detected this issue as part of a routine operational sample. The effluent valve was closed and therefore the leachate treatment plant discharge in May was significantly reduced. It was determined that a biological upset had occurred in the treatment system. This was corrected by importing activated sludge from the Dunnville Wastewater Treatment Plant. The biological activity is now stable following the addition of the activated sludge.
- During this period, the membrane Supplier (Fibrecoat) and the Plant Operator (Clearford) took the opportunity to perform an extensive 2 step 48-hour cleaning process on the membranes. This process is new and it is expected it will help increase effluent production and decrease downtime.
- The May leachate elevation shows an increase from 197.0 mAMSL to 197.7 mAMSL (see next slide). This elevation increase is attributed to the reduced effluent removal identified above and due to the Leachate Treatment Plant recirculating effluent back into the landfill close to the location of the instrumentation that measures leachate elevation (known as a pressure transducer). This may have caused a short term, localized leachate mound within the landfill. The leachate level is expected to continue decreasing upon restarting treated effluent hauling and discharge to the roadside ditch.
- The leachate level has dropped 1.5 m since January 1, 2020 and 13,744,380 L of leachate has been treated and removed from Site.





Hauling and Leachate Level Update

- **Elevation on January 1, 2020**
 - Leachate elevation - 199.2 metres above mean sea level (mASML)
- **Effluent and Leachate Summary for March to May:**
 - March 3,009,440 L Leachate elevation - 197.8 mASML
 - April 2,140,660 L Leachate elevation - 197.0 mASML
 - May 285,060 L Leachate elevation - 197.7 mASML
 - **Total 5,435,160 L**





Odour Complaints



4
complaints
over 4 days



2
complaints
over 2 days



0*
complaints

*1 Complaint received but
attributed to farm field spraying

**Complaint
Lines**

Corporate: 416-966-1100

Site Specific: (888) 402-7368

On-site Office: 416-389-8876

MECP Spills Action: (800) 268-6060





Ongoing Odour Mitigation Strategy Update

- Reduce the leachate level in the cell by increasing leachate treatment plant production;
- Reduce leachate generation:
 - Placement of interim cover completed for areas not actively receiving waste; and
 - Continue strategic placement of material to allow for installation of final cover.
- Continue placement of low odour non-hazardous contaminated soil in the active waste fill area.
- Predictive application of odour control measures on weekends if weather conditions are forecasted to be conducive to odour complaints.
- Continue to operate stationary odour control mister.





Site Approvals – EA & ECA



Brooks Road Landfill Site



Site Approvals – EA & ECA

- Environmental Assessment Conditions of Approval documents were recently submitted to the MECP including Compliance Monitoring Program (Condition #4), Annual Compliance Report (Condition #5), Complaint Protocol (Condition #6), Indigenous Consultation Plan (Condition #9) and Terrestrial/Aquatic Best Management Plan (Condition #12)
- Once MECP has provided their review, the documents will be posted on the public record (website).
- ECA Amendment application was approved by the MECP on March 27, 2020. The ECA governs the design and operation of the site and includes additional details on the implementation of the vertical landfill expansion.





Other Business/ Next Meeting

- Two new PLC Members have joined since the last PLC Meeting:
 - Councillor John Metcalfe – Representing the County of Haldimand
 - Kimberly Seaben - Resident
- We have updated the Brooks Road website with additional information/ FAQs to address comments/ questions from our last PLC Meeting
- Next PLC Meeting is scheduled for - **Wednesday November 4, 2020**
- We will contact the PLC in advance with respect to format for the next PLC Meeting in light of COVID-19

