

HARTLAND 2100 DESIGN CONCEPT (2019)

Hartland Landfill is a significant regional asset. It is the only municipal solid waste disposal site in the capital region and is widely recognized as a leading facility in solid waste management. The goal within the new Solid Waste Management Plan is to extend the life of Hartland landfill to 2100 and beyond. A new fill plan is currently in development that is looking at future conceptual design options to extend the capacity of the landfill beyond the current 2045 design.

There are many benefits to extending the life of the landfill. An approved long-term design provides certainty on how garbage will be managed and allows time for exploring new ways of managing waste, as waste technology develops over time. Siting of a new landfill in a largely developed and growing region is extremely difficult, with numerous environmental, social and economic challenges.

Planning for Hartland 2100 and beyond must start now to ensure effective cell design for the future. To maximize the capacity of the landfill to 2100 and beyond, the disposal area will continue to be expanded both vertically and horizontally within the existing property boundary, with rock being extracted to maximize landfill space.

Hartland Landfill is located in an area with significant bedrock outcroppings. A quarry operation is conducted annually to create space for garbage. The rock is currently used on site as landfill cover and for road construction, and excess rock is stored. In the long term, there will be an internal surplus of aggregate due to lack of storage space. The surplus rock could be utilized for off-site CRD projects.

The Hartland 2100 design concept includes the horizontal and vertical expansion of the operational footprint within the existing site property boundary. Attachment 1 shows the proposed horizontal expansion of the landfill's operational footprint within the property boundary. As shown in yellow, the property boundary will be expanded slightly to reflect a 2014 addition of 8.5 hectares to the site. Attachment 2 illustrates the vertical expansion.

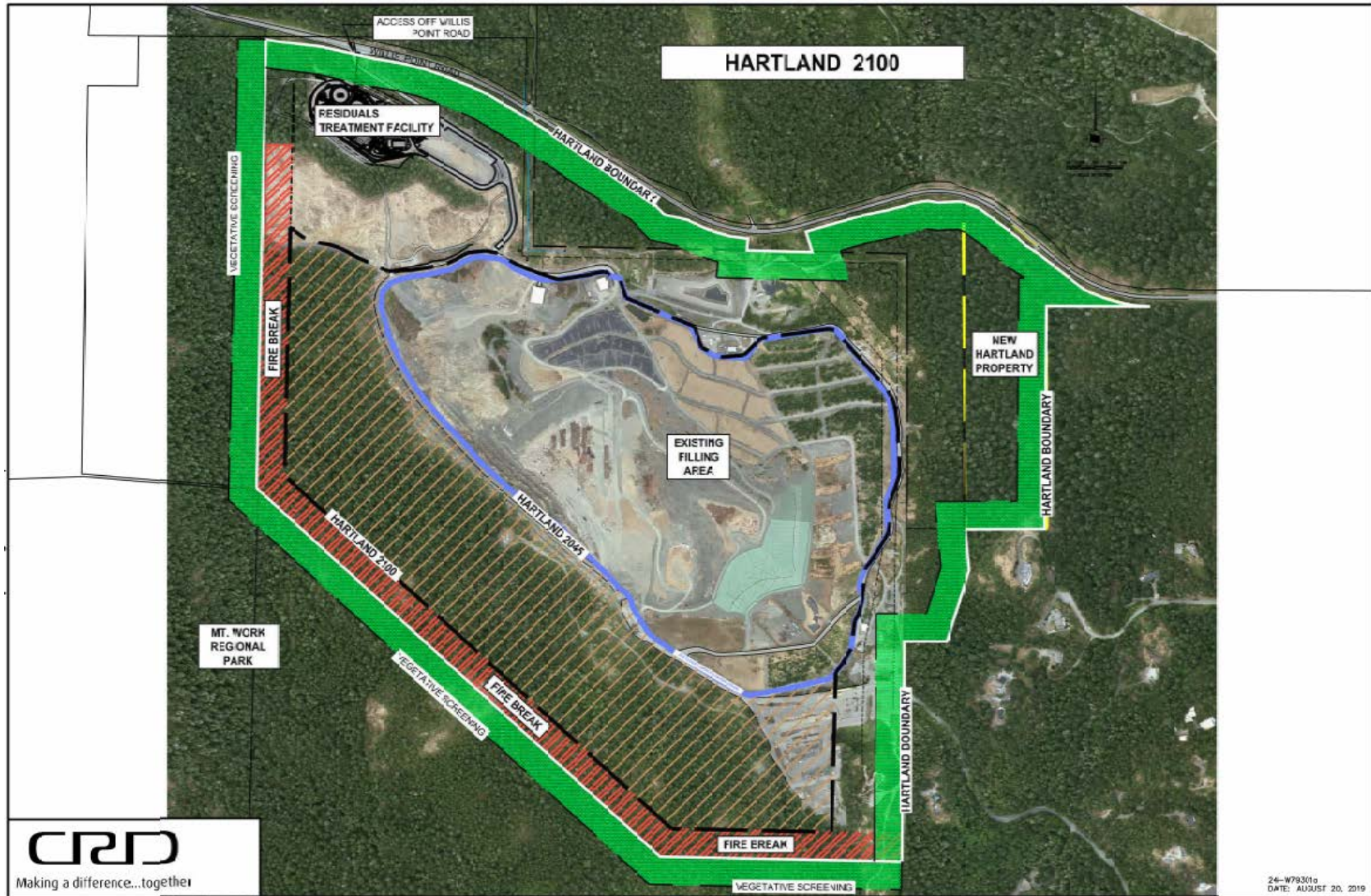
Since 1999, CRD Parks has had access to parts of Hartland's property for recreation purposes, with the understanding that the land would eventually become necessary for future landfill activities. The area has been primarily used for mountain biking. The future horizontal expansion of the operating footprint will impact a small percentage of mountain bike trails. The CRD is committed to working with the mountain bike community to develop alternate trails for the future. The trails will be affected in approximately five years, allowing ample time for consultation and construction of new trails to occur.

New provincial landfill criteria specifies a maximum landfill road grade level of 8%. Hartland Avenue, the road used to access the landfill site, has several sections with grades that exceed 12%. With construction of the Residual Treatment Facility (RTF), and associated weigh scales at the north end of the Hartland site, it is an appropriate time to plan for redirecting traffic of larger garbage loads to Willis Point Road to ensure site traffic safety. Willis Point Road, including a turning lane into the Hartland site, is designed to allow significantly greater traffic capacity than is currently occurring.

The Hartland 2100 design concept creates a long-term vision of how solid waste will be managed in our region. The province expects that regional districts conduct an effectiveness review of their SWMP every five years and renew the plan every 10 years. This will provide the opportunity to assess progress and continue to explore how we manage waste in our region.

Attachment 1: Hartland 2100 Design Concept – Plan Map
Attachment 2: Hartland 2100 Design Concept – Profile Map

Hartland 2100 Design Concept Plan Map



Hartland 2100 Design Concept Profile Map

