

**REPORT TO PARKS & ENVIRONMENT COMMITTEE
MEETING OF WEDNESDAY, APRIL 24, 2019**

SUBJECT **Environmental Resource Management – 2018 Progress Report**

ISSUE

To present a summary of 2018 activities, results and accomplishments of the Capital Regional District (CRD) solid waste function.

BACKGROUND

The Environmental Resource Management (ERM) Progress Report (Appendix A) provides regular updates on solid waste services, including accomplishments and statistics on activities conducted over the year. Solid waste services are based on the 5R hierarchy of Reduce, Reuse, Recycle, Resource Recovery and Residual Management, with the goal to extend the life of Hartland Landfill by minimizing waste disposal and maximizing diversion and recovery opportunities. Highlights for 2018 include:

Diversion Services (Reduce, Reuse, Recycle)

- The CRD entered into a partnership with the National Zero Waste Council on a three-year food waste reduction campaign called Love Food Hate Waste Canada. Activities for the 2018 launch focused on raising awareness locally about food waste issues and engaging the public to discuss the topic through social media. Activities for 2019 will pivot toward actions that households can take around meal planning, food storage tips and learning more about best before dates.
- New for 2018, staff piloted public tours for individuals not part of a school or community group. These four events, which included a presentation and landfill tour, filled up quickly and received positive feedback. Tours will continue in 2019, with a focus on food waste reduction and will expand to target both family and adult-only audiences.
- A new five-year agreement with Recycle BC was signed in 2018 to provide residential curbside and depot recycling services until the end of 2023.
- CRD recycling programs diverted a total of 31,409 tonnes of material from Hartland Landfill in 2018.
- Work to secure regional organics processing capacity continues into 2019, with evaluation of submissions received in response to a request for expressions of interest issued in November 2018.

Energy Recovery Services (Recovery)

- Landfill gas collection infrastructure continues to be installed in accordance with the Landfill Gas Management Plan (LFGMP). In 2018, the average collection efficiency across three models was 68%, which is within the estimated ranges in the LFGMP. The targeted efficiency of 75% is expected to be reached when full build-out is achieved.
- In 2018, the CRD Board directed staff to investigate opportunities to optimize landfill gas utilization. This work continues in 2019, with staff pursuing options to upgrade the gas to pipeline quality and sell it as renewable natural gas.

Disposal Services (Residual Management)

- The region's per capita disposal rate dropped from 407 to 380 kgs/person for 2018, well under the provincial average of 472 kg/person (2016).
- In 2018, a new Master Filling Plan progressed to develop long-term design options and aggregate management strategies to maximize Hartland's disposal capacity.
- A new pre-approval process for residential renovation waste disposal was implemented in 2018 to meet WorkSafeBC regulatory requirements and to ensure staff and public safety.

In 2018, the Board appointed a new Solid Waste Advisory Committee and work resumed on the Solid Waste Management Plan.

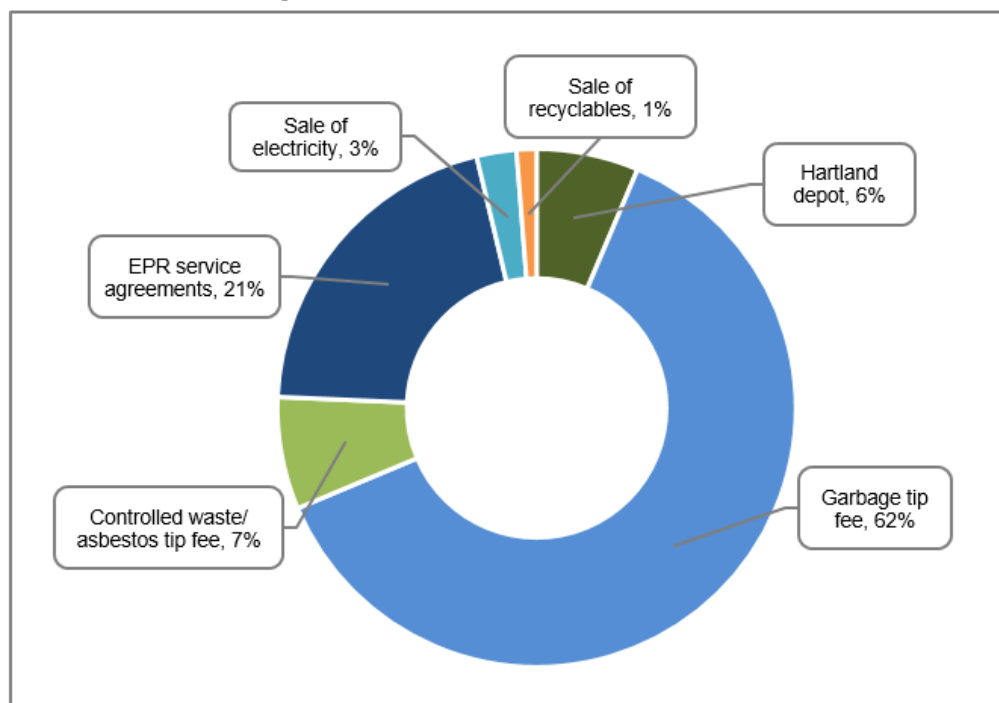
ENVIRONMENTAL IMPLICATIONS

The environmental monitoring program for Hartland confirms that regulatory requirements were met. Monitoring results confirm that effective measures are in place to ensure environmental impacts are mitigated and that leachate is effectively being controlled and contained onsite.

ECONOMIC IMPLICATIONS

Solid waste services continued to be self-funded in 2018. All costs associated with CRD solid waste disposal and diversion programs are funded through: tipping and user fee revenues at Hartland Landfill, service delivery agreements for stewarded materials, sale of electricity and sale of recyclables.

Funding Sources for CRD Solid Waste Services



Surplus funds are held in reserve for future capital works and closure/post-closure work. The balance at the end of 2018 of these reserve funds are as follows:

- Sustainability Reserve: \$27,540,044
- Landfill Closure: \$10,138,653
- Capital Reserve: \$9,793,094
- Equipment Replacement: \$3,108,511
- Airspace Reserve: \$500,000
- Gulf Island Depots: \$37,785
- Compost Education Centre: \$22,817

CONCLUSION

In addition to a number of waste diversion programs and resource recovery activities, the CRD continues to safely operate and maintain Hartland Landfill and meet its regulatory commitments to protect human health and the environment from potential impacts associated with solid waste disposal services.

Staff have prepared an annual progress report with updates on solid waste programs, operations, capital projects, environmental monitoring and other activities.

RECOMMENDATION

That the Parks & Environment Committee recommend to the Capital Regional District Board:

That the Environmental Resource Management 2018 Progress Report be received for information.

Submitted by:	Tom Watkins, Acting Senior Manager, Environmental Resource Management
Concurrence:	Larisa Hutcheson, P.Eng., General Manager, Parks & Environmental Services
Concurrence:	Robert Lapham, MCIP, RPP, Chief Administrative Officer

WD:ac

Attachment: Appendix A – Environmental Resource Management – 2018 Progress Report