

West Coast Landfill 2020 Annual Report

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Alberni-Clayoquot
Regional District



Overview

- Mission and Targets
- Solid Waste Generation
- Waste Diversion
- Landfill Capacity
- Finances
- Environmental Monitoring
- Summary of 2020 Projects
- Upcoming Initiatives
- Acknowledgements

Mission and Targets

“To protect human health and the environment and maximize value of service by effectively managing the region’s solid waste in an environmentally, socially and economically responsible manner.”



Reduce landfill disposal to less than 400 kg/capita



Increase Diversion of Waste to 50%



Minimum Airspace Consumption Ratio of 600 kg/m³



Annual Capital Contributions meet funding requirements



Confirm all leachate is treated to meet the FWAL criteria



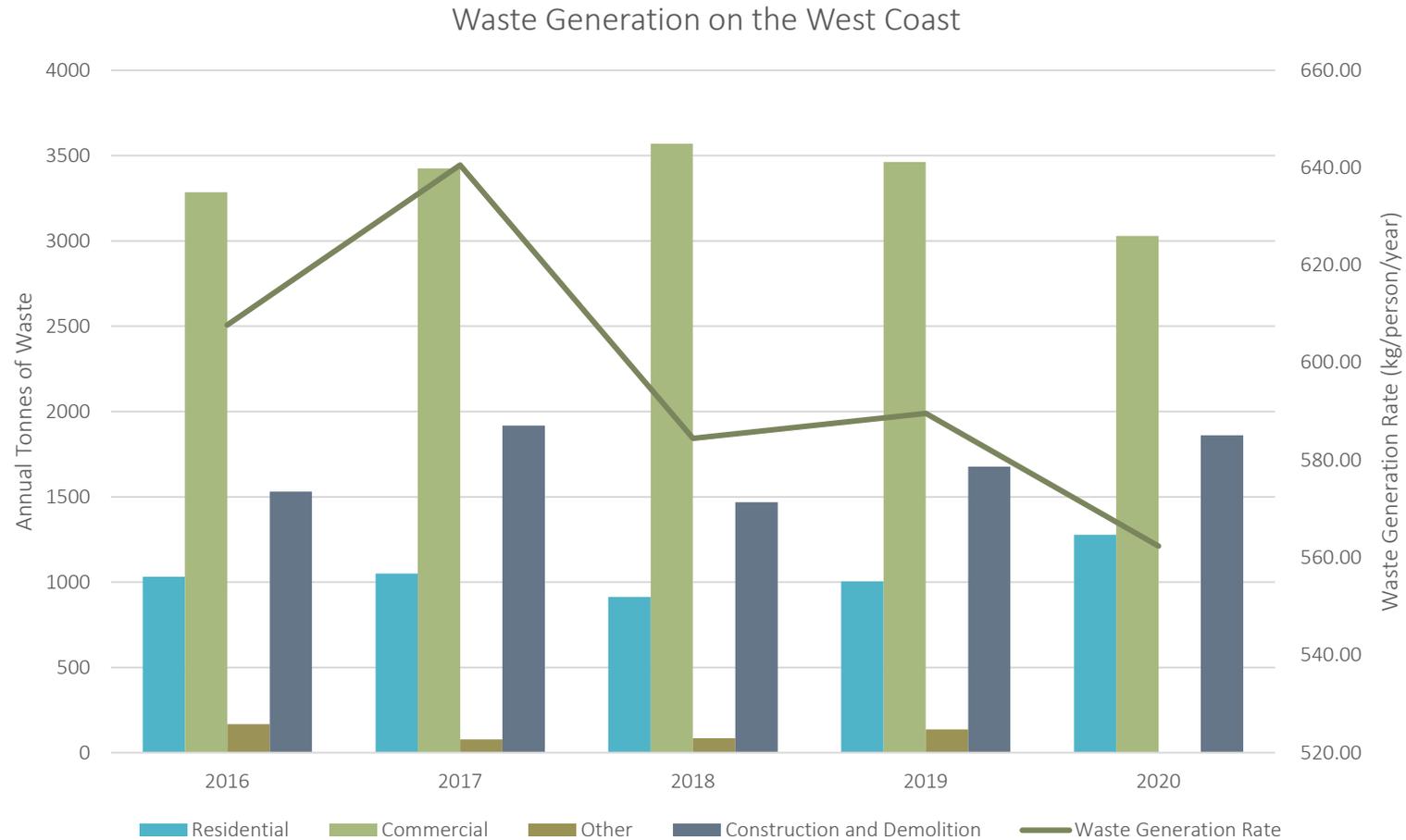
Landfill Gas Generation less than 1,000 tonnes/year of methane

Solid Waste Generation



Reduce landfill disposal to less than 400 kg/capita

Target 1



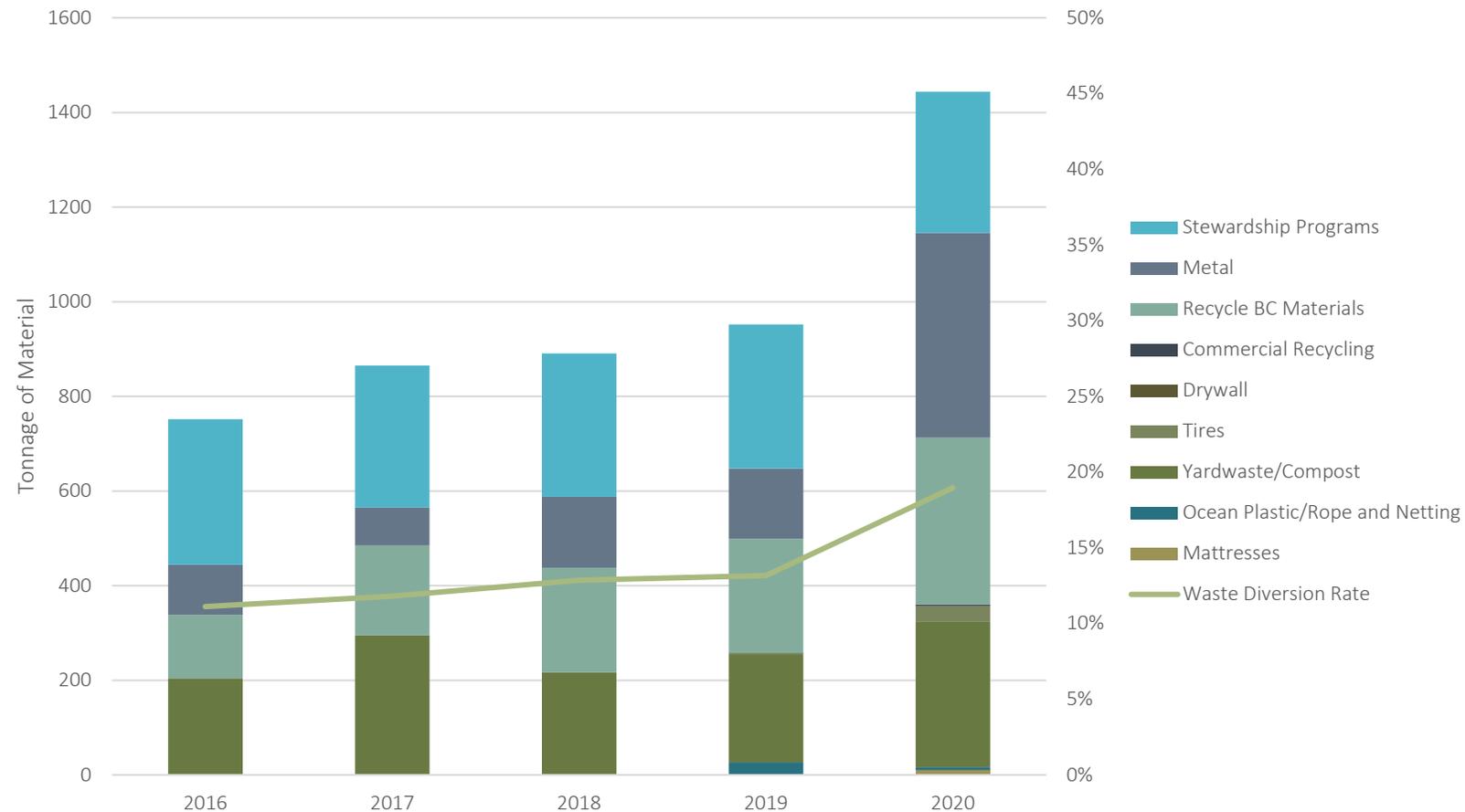
Waste Diversion



Increase Diversion of Waste to 50%

Target 2

Waste Diversion on the West Coast



Landfill Capacity



Minimum Airspace
Consumption Ratio of
660 kg/m³

Target 3

- 712,244 m³ available
- Remaining Life 40 years
- Estimated Closure in 2061
- Potential to extend life



Finances

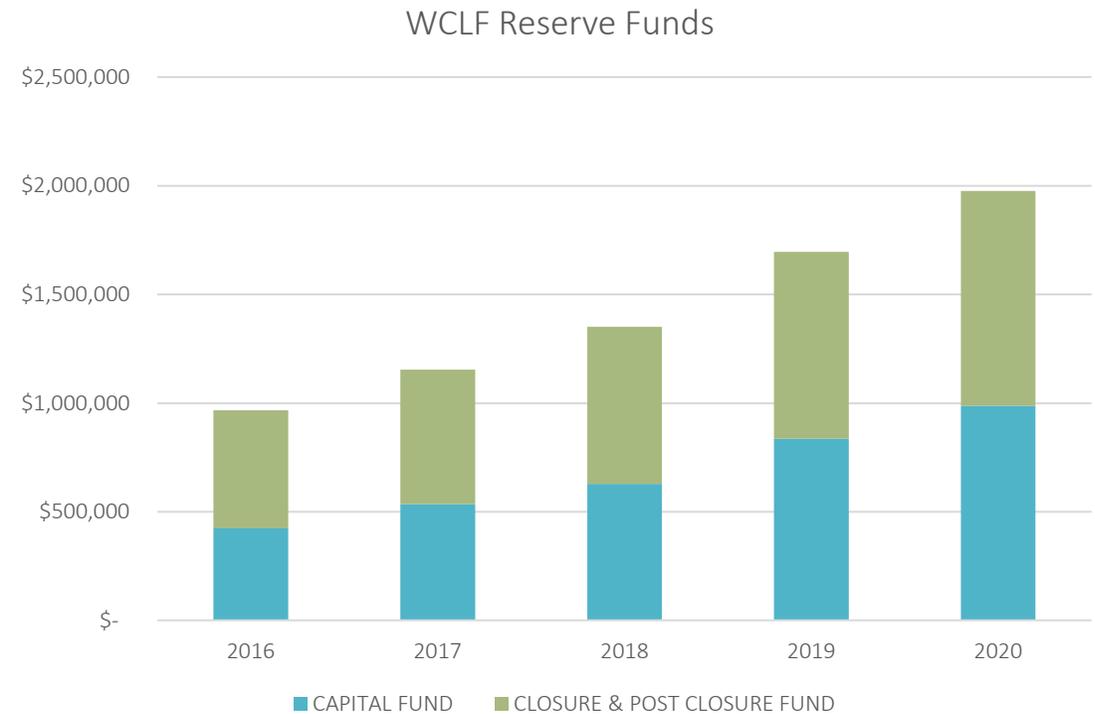


Annual Capital Contributions meet funding requirements

Target 4

- Closure requires \$70,000/year
- 2020 contributions
 - *\$120,000 for closure/post-closure*
 - *\$183,930 for capital contributions*

	2020
LANDFILL OPERATING COSTS	\$ 841,329
ADMIN & EDUCATION COSTS	\$ 91,976
RECYCLING	\$ 84,393
TOTAL COSTS	\$ 1,017,968
RECOVERIES	\$ 253,051
NET COST	\$ 764,647
RESERVE FUNDS ALLOCATION	\$ 303,930



Environmental Monitoring



Confirm all leachate is treated to meet the FWAL criteria

Target 5

- Water Quality monitoring is conducted quarterly
 - *Field samples collected by ACRD staff*
 - *Analyzed at accredited lab*
 - *Results reviewed and reported on by Piteau and Associates*
- WCL Leachate system continues to experience overflow events (19 in 2020)
- The treatment system was not effective at ensuring that all water leaving the site met the Fresh Water Aquatic Life criteria
- Preliminary Design for a new leachate treatment system is underway



Landfill Gas



Landfill Gas Generation
less than 1,000
tonnes/year of methane

Target 6

- 2018 Landfill Gas Report estimates 339 tonnes of methane produced for 2020
- At 1,000 tonnes per year, a gas collection system is required
- Diversion of organics will reduce gas generation

REDUCE GREENHOUSE PRODUCTION (METHANE)

Organic material breaking down in the landfill produces GHG's (greenhouse gases CO² and methane). By removing organic material through diversion programs reduces the amount emitted into the air we breath.



Projects Completed 2020

- West Coast Landfill Economic Assessment
- Monitoring Program Improvements
- Mattress Diversion
- Compost Pilot Project
- Curbside Collection Contract Renewal
- Waste Reduction Education Program



Projects Completed 2020

- Recollect Recycling App
- Began Bear Aware Program
- Ocean Plastic Depot Pilot Program



SORT'NGO ACRD APP

Keep track of collection schedules, sign up for alerts and check which cart to use for specific items with the Sort'nGo ACRD app. Get it on Google Play or download on the App Store.

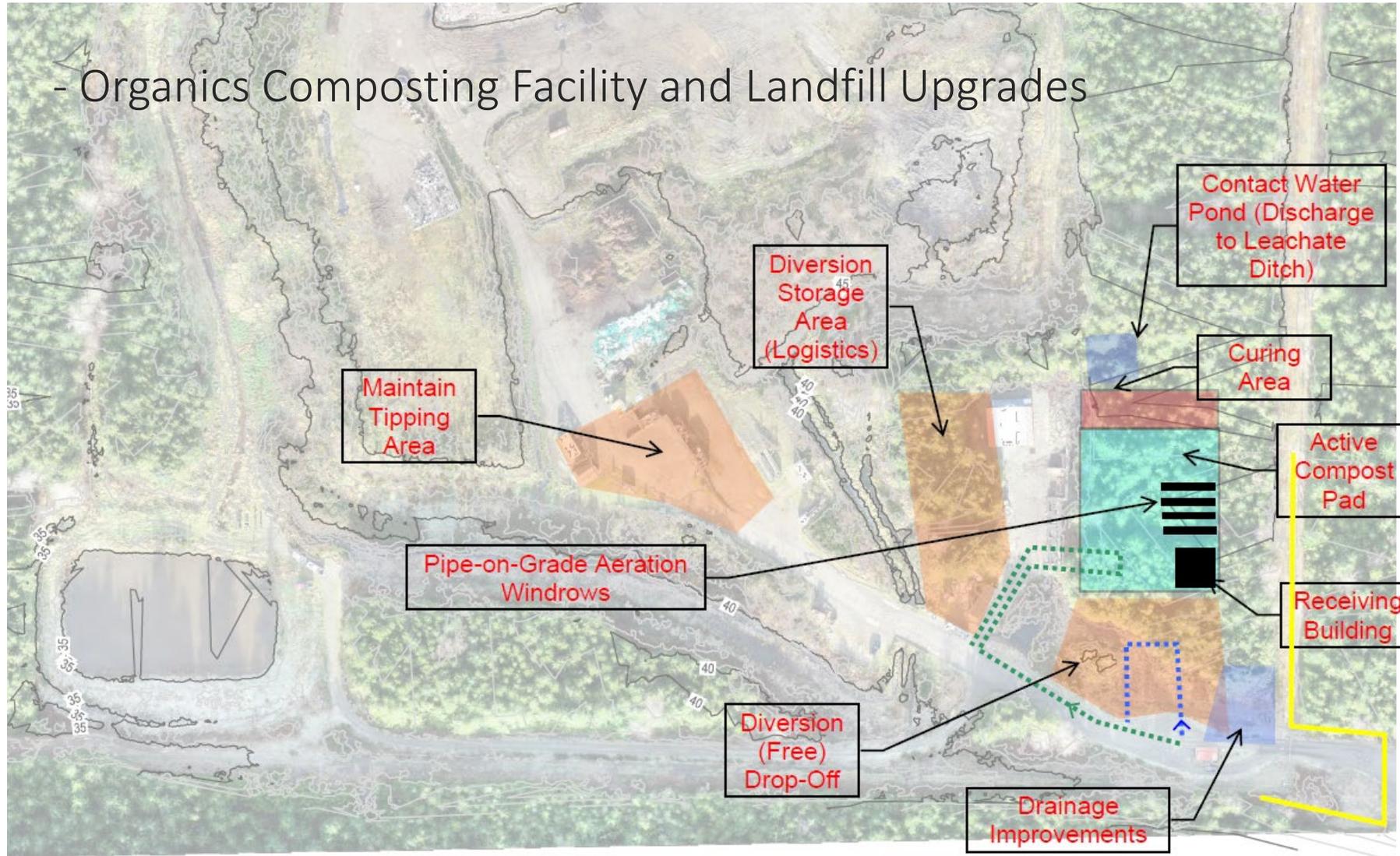


British Columbia Conservation Foundation



Projects Upcoming

- Organics Composting Facility and Landfill Upgrades



Projects Upcoming

- Education Program
- Landfill Contract Renewal
- Organics Curbside Collection
- Public Engagement
- Additional Diversion Opportunities



Thank you

