

Regional Solid Waste Management Service

AAP Public Meeting

February 17, 2022





We acknowledge and appreciate that the land on which we gather is the converging, traditional and unceded territory of the Syilx, Secwepemc, Sinixt and Ktunaxa Peoples as well as the Metis Peoples whose footsteps have also marked these lands.

WELCOME

THANK YOU FOR JOINING US

We're so glad you're here!

Tonight's Program & List of Presenters



- **Introductions** – Mark Andison, Chief Administrative Officer & MC
- **Housekeeping & Zoom tips** – Anitra Winje, Corporate Officer
- **Regional Waste Management Project Details** - Janine Dougall, GM Environmental Services
- **Getting Down to the Numbers** – Barb Ihlen, Chief Financial Officer
- **AAP Explained** – Anitra Winje, Corporate Officer
- **Questions and Answers** – participants and staff
- **Thank you** – RDKB Chair Linda Worley



We want to hear from **YOU!**



Regional District of KOOTENAY BOUNDARY



Regional Solid Waste Management

Census Data

2021



RDKB POPULATION	33,152 residents
TOTAL PROPERTY ASSESSMENT VALUE (# PROPERTIES)	\$8.9 billion 31,171 properties
ELIGIBLE ELECTORS	29,445

Solid Waste Management in BC

REGULATIONS



Highly Regulated

- *Environmental Management Act*
- Organic Matter Recycling Regulation
- Landfill Gas Regulation
- Recycling Regulation
- Landfill Guidelines

BENEFITS



- High costs spread over larger taxation base and more users
- Economies of Scale
- Small regional districts:
only viable way of providing
waste management services
in a cost-effective manner

Regional District of Kootenay Boundary



Solid Waste Management Plan

Revised November 2005

Regional Solid Waste Management Plan



- Plan for management of solid waste over a 20-year time frame
- Financials
- Residuals Management
- Waste Reduction Programs

Leaders in Waste Reduction

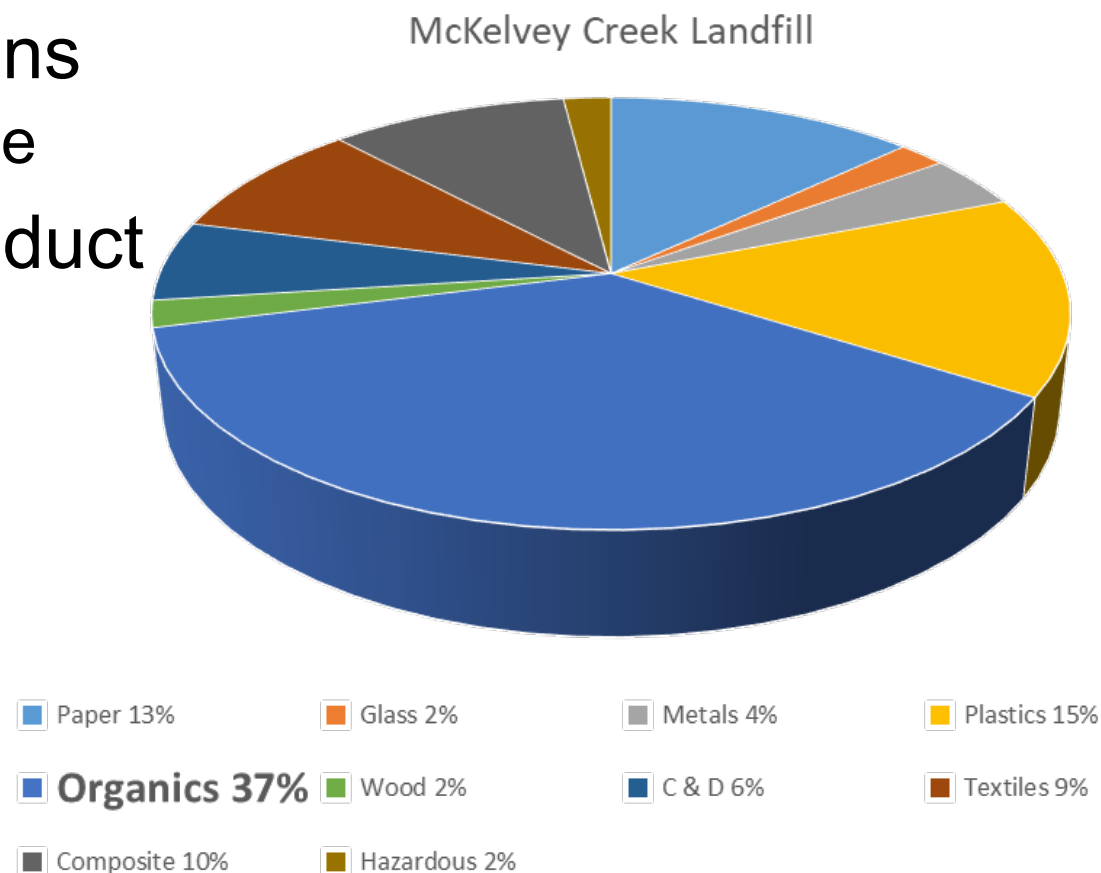
- In 2000: RDKB Board adopted Zero Waste Goal (language included in *2005 Solid Waste Management Plan*)
- One of the first RDs in Province to provide rural **blue box** collection
- Focus shifted to **organics diversion** in 2013 – Grand Forks Pilot Project
- Expanded to remaining Boundary region. Now a total of 5,900 residents (Greenwood – January 1, 2022)
- Use of Differential Tipping Fees to shape behaviour

Climate Change

- RDKB Strategic Plan 2019 - 2022 clearly identifies environmental stewardship and climate preparedness as a strategic priority
- RDKB declared a climate action imperative (2019):
 - **Bold** action needed to address climate change
- Projects will contribute to commitment under *Climate Action Charter* to move towards carbon neutrality

Benefits of Organics Diversion

- Extend Landfill Life – Challenges siting new landfill facilities
 - Approx 37-38% of landfill waste disposed is **compostable organics**
 - 877 metric tonnes (initial) to 1,451 metric tonnes in 2040
- Reduction in Green House Gas Emissions
 - Annual reductions estimated at 2,325 tCO₂e
- Useable end products – Class A soil product
- Will not trigger Landfill Gas Regulations





REDUCE

reduce by as much as possible the amount or toxicity of material that enters the solid waste stream and also the impact on the environment of producing it in the first place



REUSE

ensure that materials or products are reused as many times as possible before entering the solid waste stream



RECYCLE

recycle as much material as possible



RECOVERY

recover as much material and/or energy from the solid waste stream as possible through the application of technology

RESIDUALS MANAGEMENT

provide safe and effective residual management, once the solid waste stream has been reduced through the application of technology

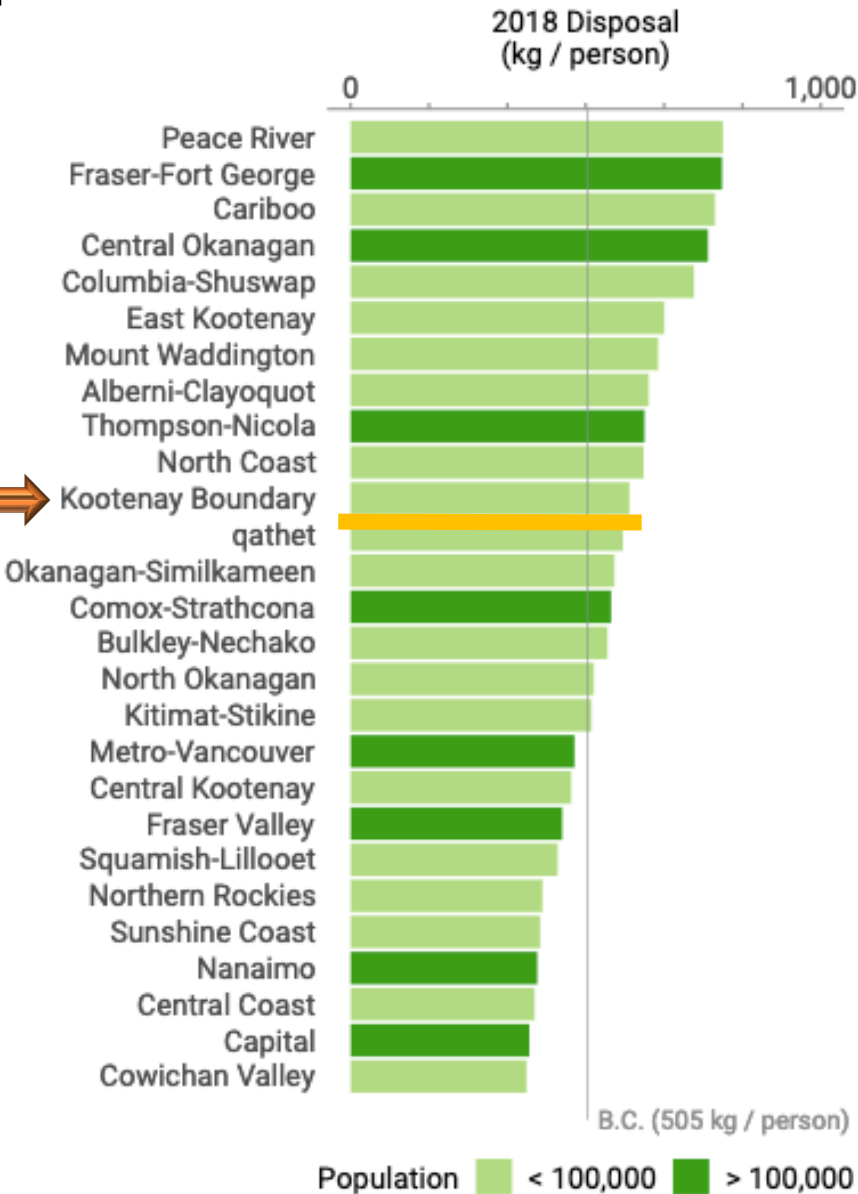
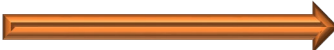
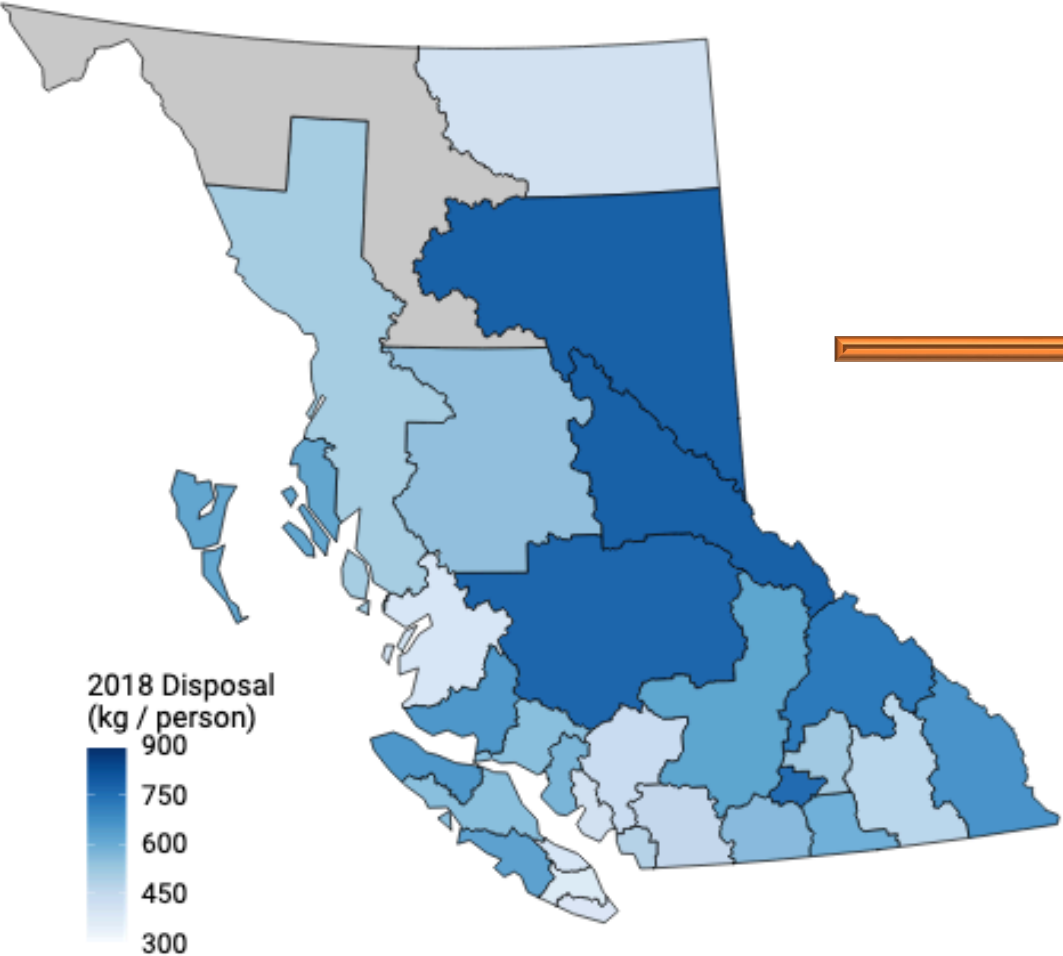
Provincial Targets



In BC, the Provincial Government has set a provincial waste disposal target to lower the municipal solid waste disposal rate to **350 kg per person** to reduce the waste generated on land and in the marine environment.

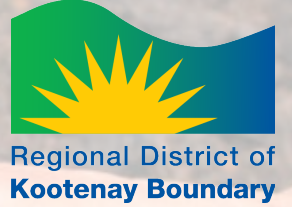
How does the RDKB Compare?

Sort by: [Name](#) / [Disposal Rate](#) / [Population](#)



**2018
Regional
District
Disposal
Rates**

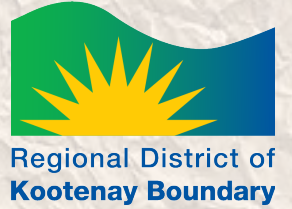
Organic Matters



RDKB has been successful in receiving a **\$700,000** grant for implementation of residential green bin curbside collection in the McKelvey Creek Wasteshed (Rossland, Warfield, Trail, Montrose, Fruitvale, Area A and B)

- approximately 8,200 homes – projected start in May 2023
- Food waste collection – weekly
- Residents will receive a green bin & educational material in advance
- Food waste will be ultimately transported to RDCK facility near Salmo

Beyond Backyard – keeping your bin “green”



What **CAN** go in the green bin:

- Baked goods—bread, cookies, etc.
- Cheese rinds and moldy cheese
- Leftover candy and snacks (no wrappers)
- Coffee and tea including filters (no liquid)
- Sauces/gravy
- Fish bones, skins and guts
- Meat bones, skin and fat
- Rotten fruits and vegetables, rinds and peelings
- Chopsticks & toothpicks
- Eggs and egg shells
- Lobster and shellfish shells
- Leftover rice, pasta and grains
- Food-soiled paper products:
 - e.g. biodegradable containers such as pizza boxes, parchment paper and paper plates.

What **CANNOT** go in the green bin:

- Plastic bags of any kind – including “compostable/biodegradable”
- Wood ash
- Cigarette butts
- Dryer lint and sheets
- Vacuum cleaner bags
- Disposable coffee cups, coffee pods
- Twist ties/rubber bands
- Metal materials
- Stickers and labels
- Rocks and soils
- Yard and garden waste
- Diapers
- Pet waste, cat litter, cage shavings
- NO "compostable" plastics!

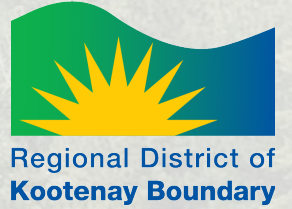
*Thank you for keeping these items **OUT** of your bin.*

Capital Projects

➤ RDKB is moving forward with two infrastructure projects associated with **organics diversion** programs:

- McKelvey Creek Landfill (Trail) Upgrade Project **(\$3.1 Million)**
- Purchase of organics processing equipment such as wood grinder or shredder **(\$1.5 Million)**

McKelvey Creek Landfill Upgrade – Project Details



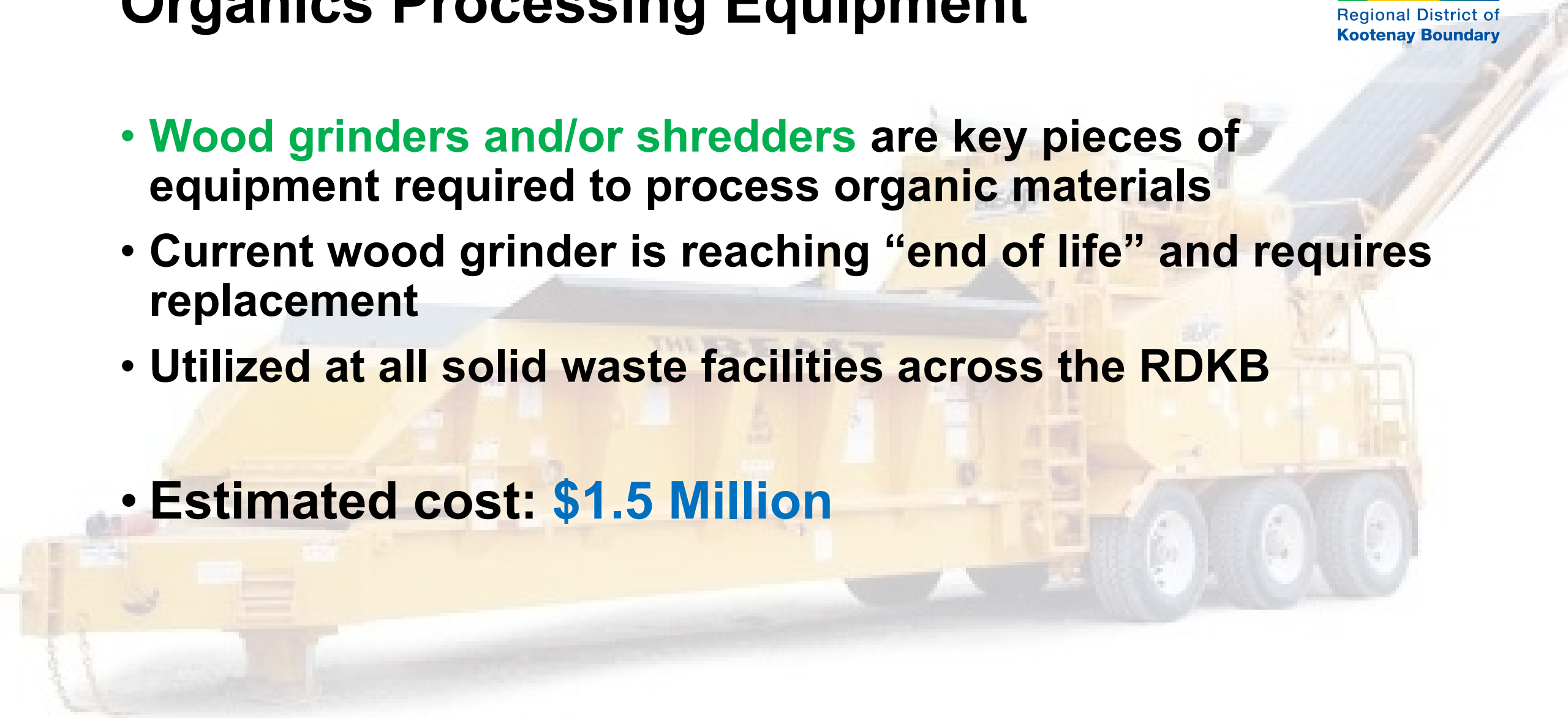
- Scope of Work Includes

- Relocation of existing recycling drop-off area (health and safety)
- Water/sewer service (health and safety)
- New transfer station area for collection/transfer of green bin materials (better customer experience)
- Two new weigh scales / office building (better customer experience)
- Fibre optic (better internet connectivity)

- Estimated cost: **\$3.1 Million**

Organics Processing Equipment

- **Wood grinders and/or shredders** are key pieces of equipment required to process organic materials
- Current wood grinder is reaching “end of life” and requires replacement
- Utilized at all solid waste facilities across the RDKB
- Estimated cost: **\$1.5 Million**



Areas helping out one another

The RDKB received **\$2.3 million** in grant funding to support upgrades to **Grand Forks Compost Facility**.

Total project value of \$3.6 million with **\$1.3 million** contributed from reserves (Trail Airport sale)

Down to the Numbers...



McKelvey Creek Landfill Upgrade - **\$3.1 Million**

Wood Grinder/Shredder - **\$1.5 Million**



MFABC

Municipal Finance Authority of BC

Financing Options



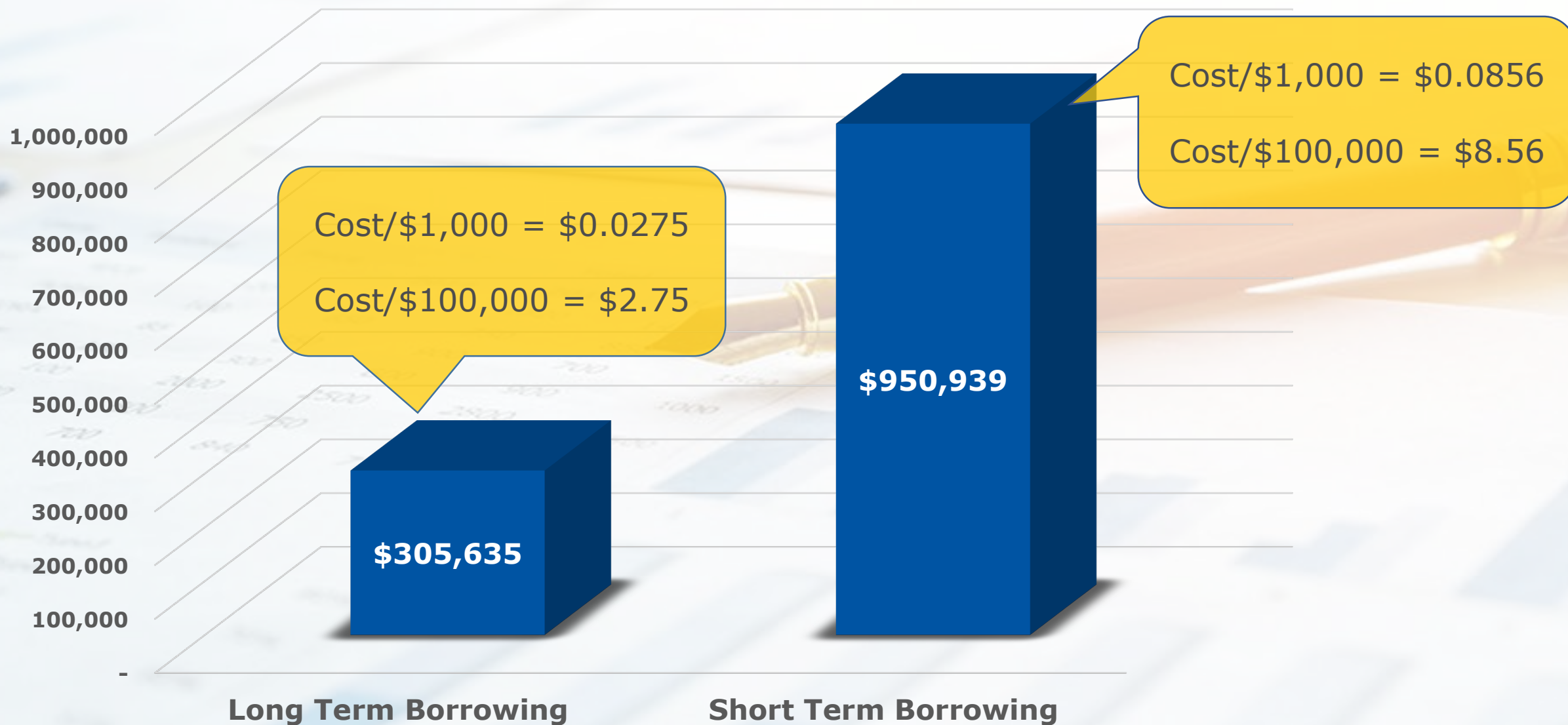
Short-term borrowing:

- **over 5 years**

Long-term borrowing:

- **over 25 years (landfill upgrade)**
- **over 15 years (wood grinder /shredder)**

Annual Debt Financing Cost Comparison



Property Assessment Comparison

Long-term borrowing: Cost/\$350,000 = \$9.62

Short-term borrowing: Cost/\$350,000 = \$29.94

AAP – Why?

- We require approval for long-term borrowing
- Far **less costly** than a referendum
- Less time
- Fewer staff resources required
- Desire to be transparent and allow for informed decisions

AAP – the process

- If you are OPPOSED to long-term borrowing and are an eligible elector:
 - Complete and submit elector response form **before March 21**

Form can be found at:

<https://jointheconversation.rdkb.com/regional-solid-waste-aap>

or email: corporate@rdkb.com

or call: 250.368.0225

**THANK YOU
FOR
YOUR
ATTENTION
ANY QUESTIONS?**



THANKS FOR ATTENDING

<https://jointheconversation.rdkb.com/regional-solid-waste-aap>