



Central
Saanich

Waste Collection Study - Phase 1

Highlights from Study

Council Meeting December 12, 2022



TETRA TECH



Agenda

Project Introduction

Feasibility Study (Phase 1) findings:

- Scan of local government waste collection programs
- Curbside waste collection options
- Yard waste drop-off facility option

Next Steps

Project Introduction



Scope



Curbside waste collection and Yard drop-off facility

- **Phase 1 of Waste Collection Study**
 - Share some of the key findings today
- **Phase 2: to be completed in 2023 (TBD)**
 - Public and stakeholder consultation



Purpose of the study



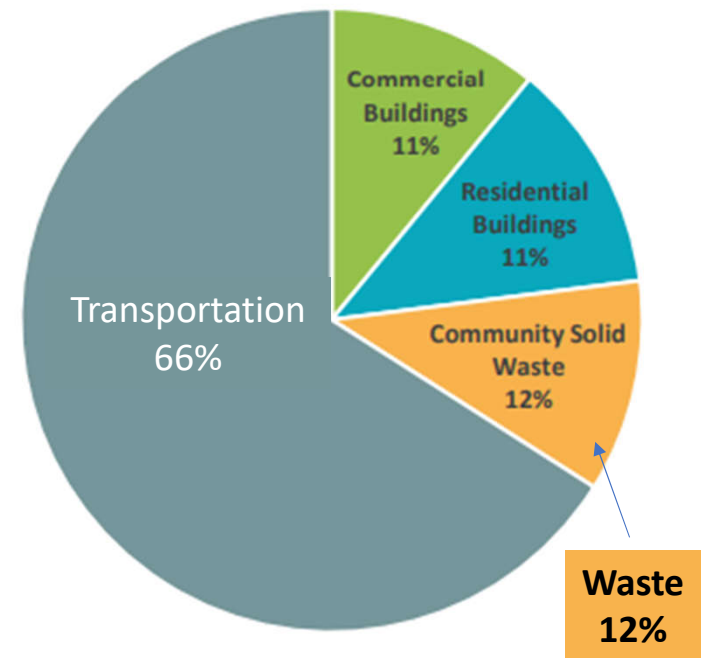
Council's Strategic Priority (2021-2022)

- Explore waste options:
 - In response to community satisfaction survey
 - Input from community

Climate Leadership Plan

- Reduce GHG emissions:
 - Truck trips (transportation sector)
 - Divert organics from landfill (waste sector)

Community Safety Benefits



Previous Feedback



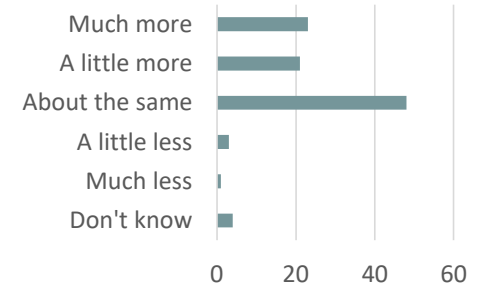
- **2018** – Increasing feedback from residents about number of waste collection trucks on the roads.
- **2019** –
 - Open Burning Engagement Survey showed 65% of respondents were highly supportive of District exploring costs of a yard waste service.
 - Community Satisfaction Survey showed 44% of respondents wanted more waste collection services.
- **2020** - Climate Leadership Plan identified garbage collection management as an action item.
- **2021** - Feasibility Study included on Council’s 2021-2022 Strategic Plan. Phase 1 of study began.
- **2022** –Feasibility Study Phase 1 complete.

That District explore costs associated with providing yard waste service



■ Highly supportive 65% ■ Neutral 16% ■ Not supportive 19%

Q: Please tell me whether you would like more, less, or the same amount of each of these services to make the District more livable: **household waste collection**.





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Phase 1 Findings

Phase 1 Findings

High-Level Feasibility Study



1. Scan of Waste Collection by other Local Governments

2. Waste Curbside Collection Models

- Model #1
 - a: in-house model
 - b: in-house model (with 1 electric truck)
- Model #2: service provided by contracted hauler

3. Yard Waste Drop-off Depot Option

Waste collection service

Current state



Private haulers contracted by residents

- Decide on level of service: weekly, biweekly, monthly – pay accordingly
- Food scraps banned by CRD but green bin not mandatory

Drop off locations

- Hartland Landfill
- Private facility in Keating Business District and other smaller operations

Recycling collection

- CRD - biweekly



Local government waste programs

In the CRD region

Municipalities	Garbage		Yard & Garden Material		Kitchen Scraps
	Collection	Drop-off	Collection	Drop-off	
Central Saanich					
Colwood				M	
Esquimalt	M			M	M
Highlands					
Langford					
Metchosin					
North Saanich				M	
→ Oak Bay	M	M	M	M	M
→ Saanich	M		M	M	M
→ Sidney	M		M		M
Sooke					
→ Victoria	M		M	M	M
→ View Royal	M		M	M	M

M = municipally-led program

- 8 municipalities – offer some level of waste disposal program
- 5 municipalities – no waste service
- 7 municipalities – offer a yard waste drop-off facility

→ Curbside collection: some level of service contracted out by municipality

Part A: Analysis for Model 1: In-House Curbside Collection



Modeled (Assumptions)

- Biweekly garbage collection
- Weekly food scraps and grass clippings
- 240 L Tote Bins
- Electric heavy-duty truck explored as part of analysis



Equipment and Labour

- 2 new and 1 used automated truck (spare)
- 5 District staff – drivers, maintenance, administration

Part A: Analysis for Model 2: Contracted Curbside Collection



Modeled (same as in-house)

- Biweekly garbage collection
- Weekly food scraps and grass clippings
- 240 L Tote Bins

Equipment and Labour

- Trucks purchased by hauler and labour assigned
- 1 District staff to administer program



Costs & Estimated GHG Reduction

Modeled system vs. Status Quo



	Curbside Collection (in-house or contracted)	Status Quo
Cost	~\$320 annual cost/per household (~\$27/month) 240L Bin size	Range in cost depends on hauler and service level: \$9.50-\$38/month 121 L Bin size
GHG reductions	Truck emissions unknown; could be half of status quo system (i.e., 89 tonnes) Landfill waste emissions could reduce up to 300 tonnes/yr. if organics are diverted	Current GHGs unknown Estimated at 188 T/year <ul style="list-style-type: none">• assuming duplication of travel patterns

Part B: Yard Waste Drop off Facility

Design of system modeled

- Public Works Yard – good accessibility
- 650 Tonnes/yr green waste
- Containers: roll-off or bunker system
- 1 District staff, kiosk, access improvements

Costs

- ~\$74 – 87/year per household
- Option to have an user pay system



Alternative waste collection service

Benefits



- Better organic waste diversion & ability to track it
- Community safety benefits; reduced hauling trucks on roads (and associated noise, pollution)
- Greenhouse Gases
 - Slight reduction in transportation emissions anticipated
 - Up to 300 tonnes of solid waste emissions reduced (organics diverted)
- Reduced burning and release of carbon particulate matter
- Ability to introduce a public education program



Additional considerations for alternative collection service



- Additional staffing (+ resources) needed to administrate and operate program
- Communication needs – provide public education on waste diversion
- Increase in customer service requests
- Economic impact – current haulers





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Next Steps

Next Steps

2022

- Waste Collection Study - Phase 1 complete (Feasibility Study)
- Initiate Phase 2 of Waste Collection Study - TBD ★
- Citizen Survey – add solid waste component - TBD ★

2023

- Phase 2: Community & stakeholder engagement (e.g., with private waste collectors, residents, other jurisdictions)
- Bring *What-We-Heard* report to Council ★
- Undertake **Phase 3**: detailed analysis on preferred options ★

★ denotes Council decision points