

Expanded Residential Curbside Organics

Regional District of Central Okanagan Board Meeting

February 2, 2023

1450 K.L.O. Road
Kelowna, BC, V1W 3Z4
rdco.com





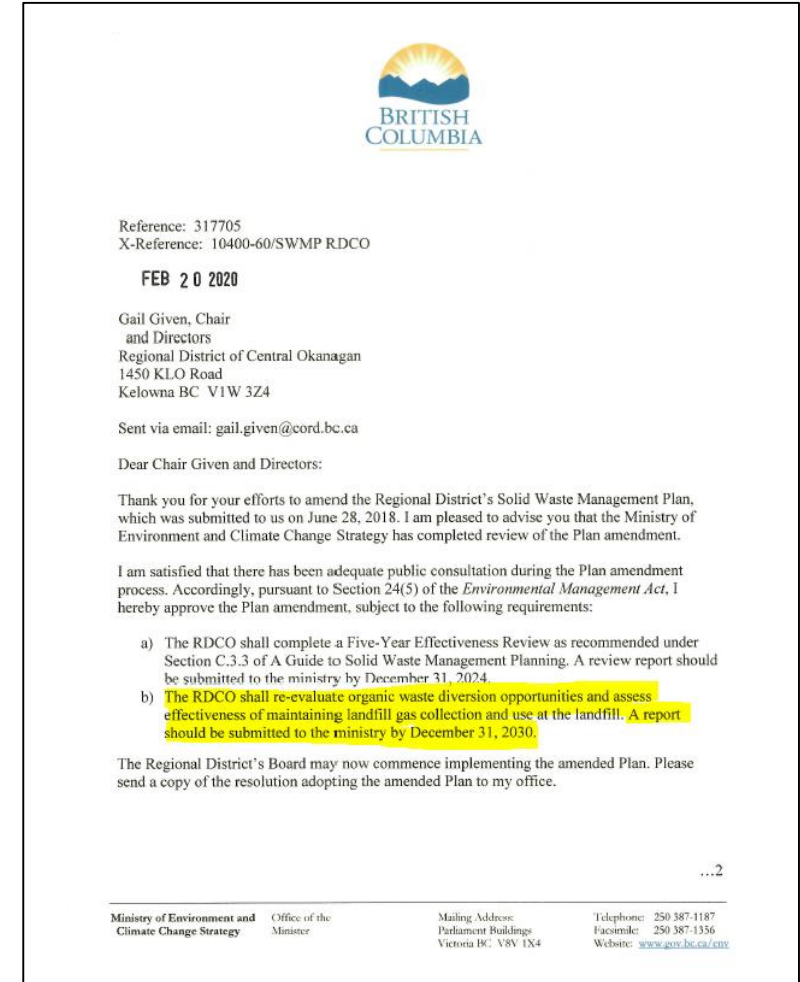
Contents

- What does the SWMP say about organic waste diversion?
- Why now?
- What are the options to process and collect organics?
- What is happening elsewhere with organics?
- What is the impact of expanded organics on our waste diversion?
- What scenarios are we exploring?
- What are the next steps?

SWMP and Organics

- SWMP accepted by Ministry in 2020.
 - Came with requirements:

“The RDCO shall re-evaluate organic waste diversion opportunities and assess effectiveness of maintaining landfill gas collection and use at the landfill. A report should be submitted to the ministry by December 31, 2030.”



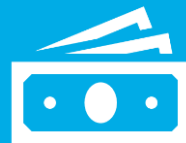
Why now?



Multiple Organics Processing facilities now exist in and adjacent to the RDCO



Organic Waste is our next 'big chunk' of divertible material



Provincial funding is available for Organics Diversion programs

Food Waste Collection Options

- **Manual Collection**
 - Lifted and emptied by hand
- **Semi-Automated**
 - Cart placed by hand within automated arm
- **Automated Commingled**
 - Food + Yard Waste in one container
- **Self Haul**
 - Organics drop off bins at Transfer Stations
- **No collection**
 - Backyard Composting





Processing Options

- **Passively Aerated and Turned**
 - Windrows and Bunkers
- **Actively Aerated**
 - Aerated Static Piles
 - Tunnels
 - Rotating Drums
- **Anaerobic Digestion**
- **Backyard Composting**
- **Kitchen Composting**

Food Waste Processing Facilities nearby

- Spa Hills Farms Inc.
 - Aerated Static Piles (ASP)
- Ingerbell Compost Facility
 - Aerated Static Piles (ASP)
- Net Zero Waste Eastgate
 - Aerated Static Piles (ASP)
- Revelstoke Compost Facility
 - Aerated Static Piles (ASP)
- Brenda Renewables Ltd.
 - Aerated Static Piles (ASP)
 - Potential Anaerobic Digester

What is happening elsewhere?

- City of Salmon Arm
 - Weekly / Manual / Food Waste
 - Enclosed Aerated Static Piles
- District of Saanich
 - Biweekly / Semi-Automated / Commingled Food Waste and Yard Waste
 - Enclosed Aerated Static Piles
- City of Nanaimo
 - Weekly / Automated / Commingled Food Waste and Yard Waste
 - Upgrading to Enclosed Aerated Static Piles
- City of Vancouver
 - Biweekly / Automated / Commingled Food Waste and Yard Waste
 - Aerated Static Piles
- City of Nelson
 - Kitchen Composting program (Vitamix FoodCycler)

Potential organics diversion (RDCO)

	Estimated RDCO Tonnes	RDCO Calculated kg/hh/year	Other Communities kg/hh/year
Residential Food Waste only	9889	159	120
Residential Food & Yard Waste	25,548	410	372
ICI (including Multifamily)	7,220	77	71
Residential & ICI Food/Yard Waste	32,768	347	316

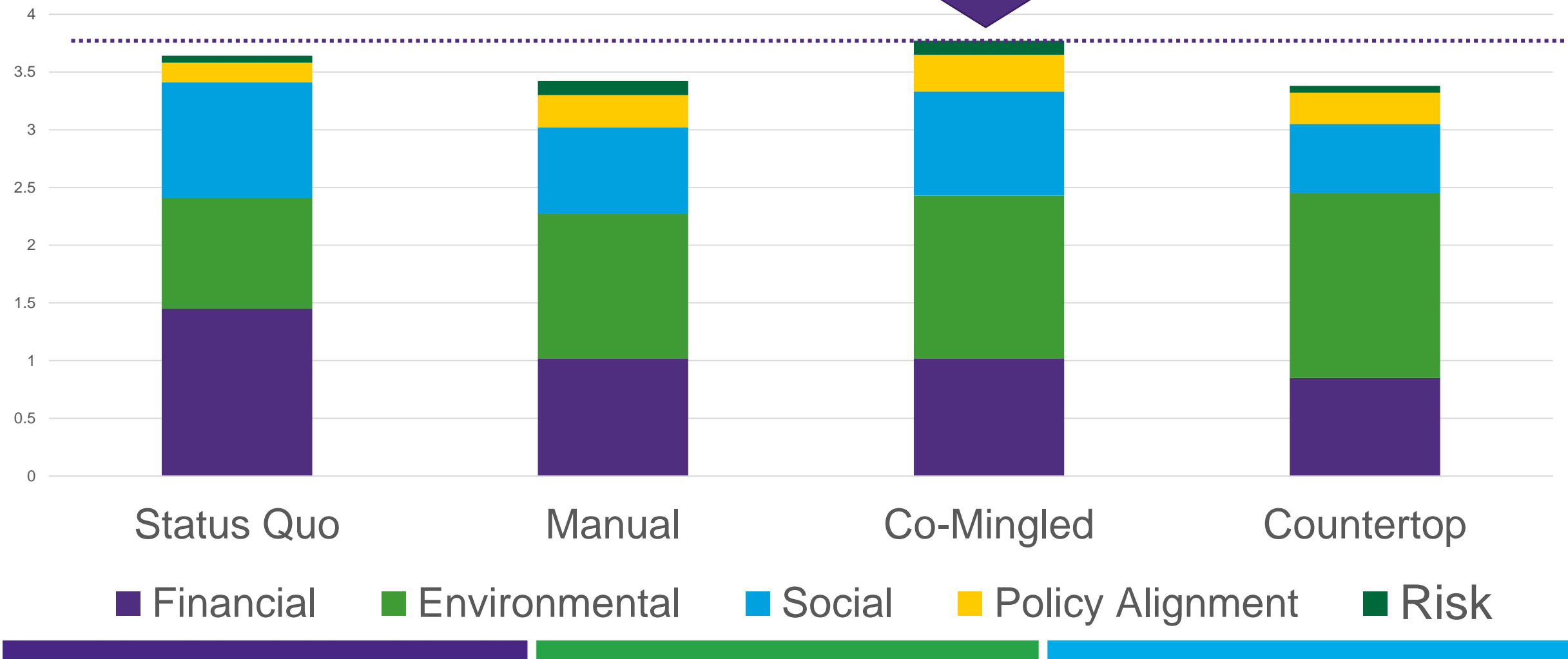


Food Waste Feasibility Study

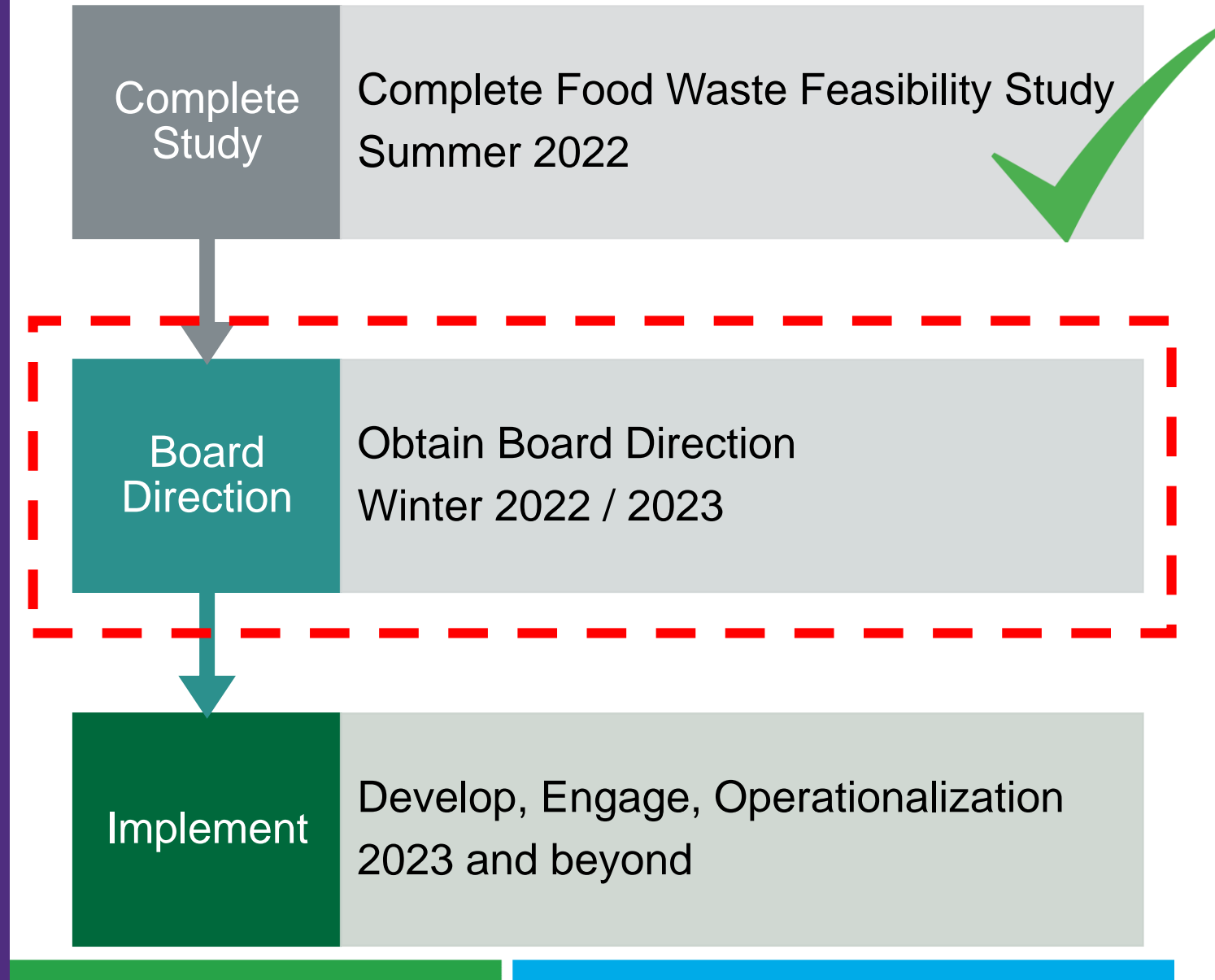
- Status Quo
- Manual Food Waste and Automated Yard Waste Collection (separate)
- Automated Food and Yard Waste Collection (Commingled)
- Kitchen Composting (no food waste collection)



Study Outcome



What's next?



Next Steps

1. Develop a consultation and communication strategy
2. Engage with residents and local Councils
3. Undertake service design
4. Investigate organic waste policy and bylaws
5. Return to the Board with service recommendation

Budget Estimates

- **Study Recommends:**
 - \$10-\$15 per household for next steps
- **Estimated Budget:**
 - \$450,000 to complete next steps
 - \$75,000 for additional staff resources

District / Jurisdiction	Financial Contribution
City of Kelowna	\$368,498
District of Peachland	\$14,753
District of Lake Country	\$40,320
City of West Kelowna	\$83,213
Electoral Area Central Okanagan West	\$7,403
Electoral Area Central Okanagan East	\$10,868
Total:	\$525,000

Recommendation

All Directors – Unweighted Corporate Vote – Simple Majority (LGA s.208)

THAT the Board receive the report titled Expanded Residential Curbside Organics from the Director of Engineering Services, dated February 2, 2023 for information;

AND THAT Staff initiate next steps to implement a regional curbside co-mingled food and yard waste collection program as outlined in the report from the Director of Engineering Services.



End of Presentation