

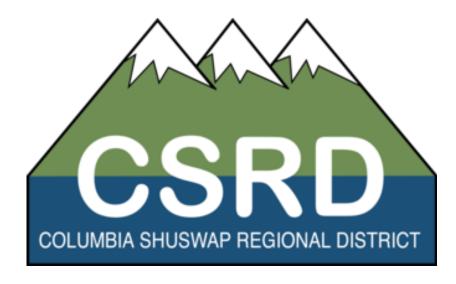
Preferred Strategies for the CSRD's SWMP Update

Presentation to PTAC on October 9, 2024



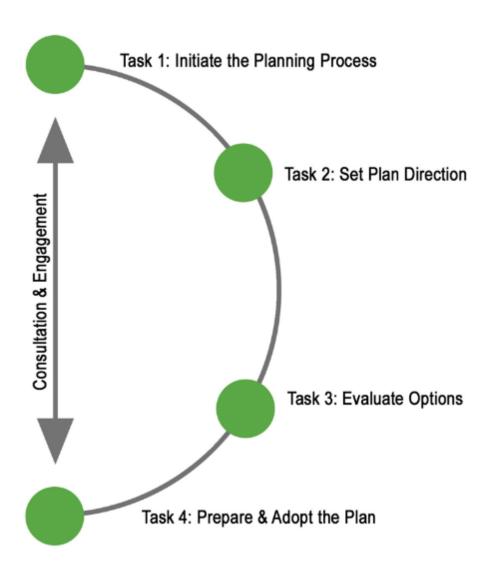
Meeting Outline

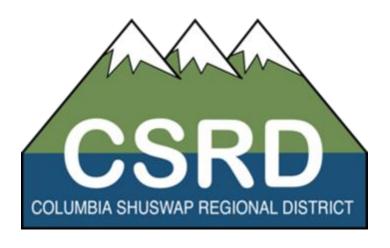
- Plan update process (<5 min)
- Review 'what we have heard' from last meeting (5 min)
- Overview of Preferred Strategies (30 min)
- Break (15 min)
- Group discussions on strategies, actions and priorities (90 min)
 - Activity to prioritize actions
- Next steps (5 min)





Plan Update Process





Non-Sector Specific Issues and Opportunities PTAC Priorities and Feedback on Strategies



Strategy Overview - What we have heard

Improve Emergency Debris Management

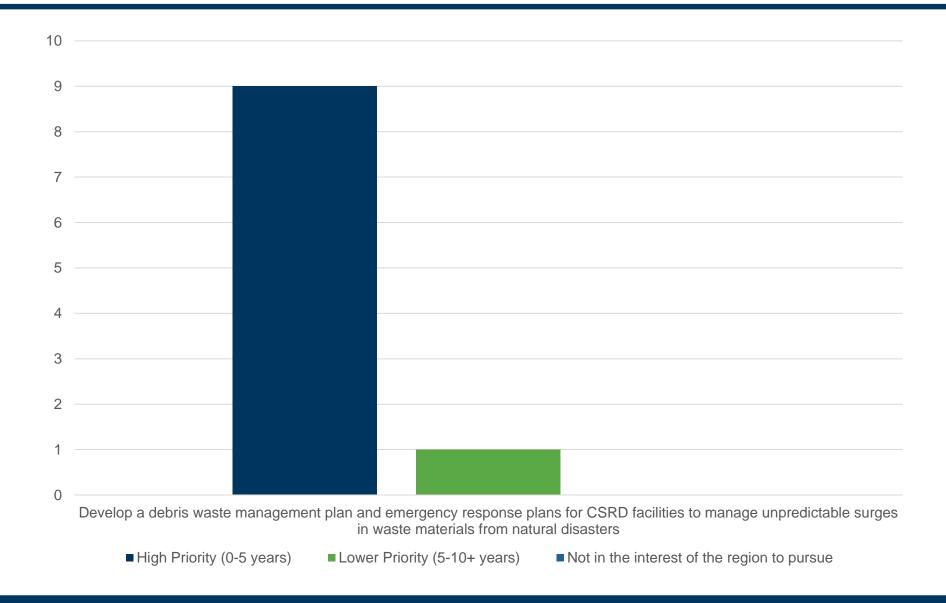
Prevent Illegal Dumping

Prevent Wildlife Interactions

Review Innovative Technologies to Maximize Disposal Capacity and reduce GHG Emissions

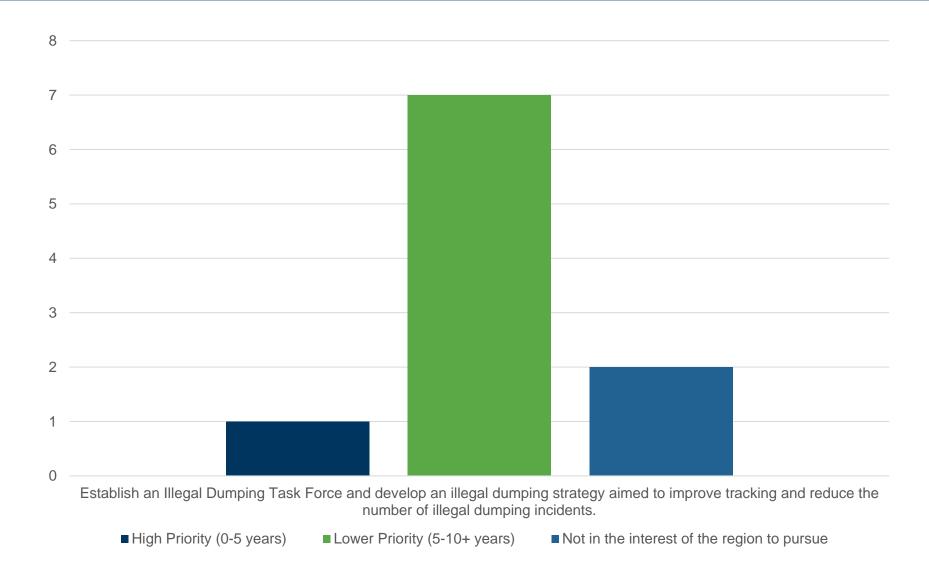


Improve Emergency Debris Management



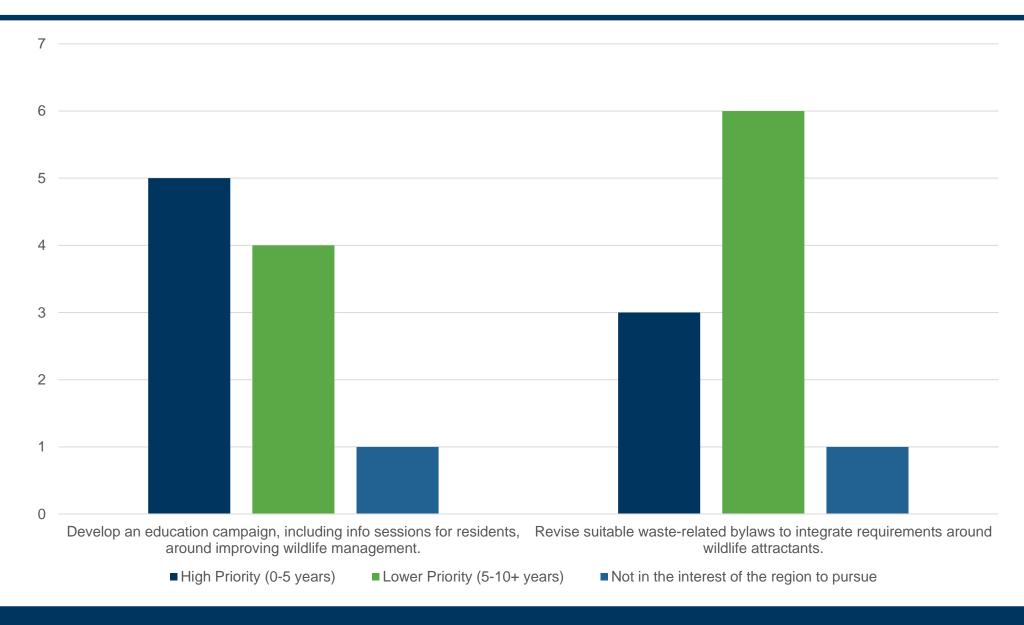


Prevent Illegal Dumping



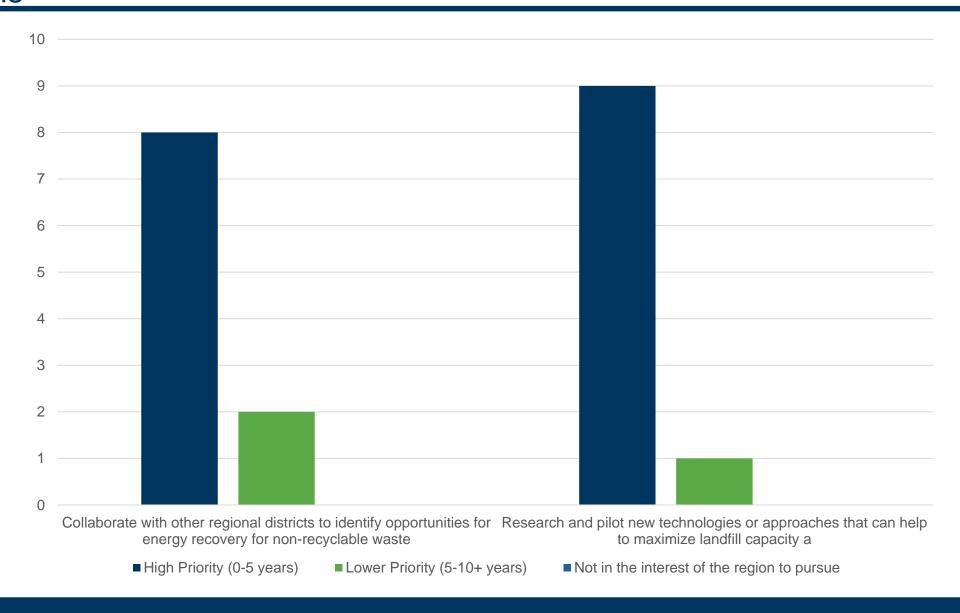


Improve Wildlife Management





Review Innovative Technologies to Maximize Disposal Capacity and Reduce GHG Emissions

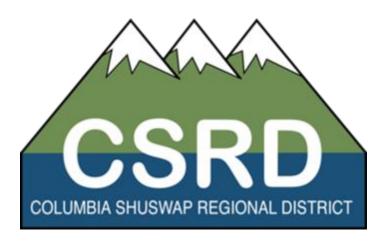




Questions/Feedback?







Overview of All Preferred Strategies Discussed to Date



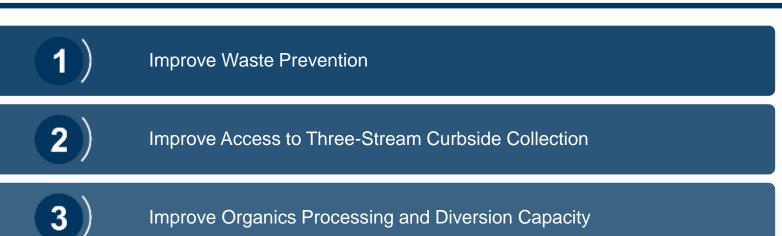
Fourteen Preferred Strategies (#1 - 7)



Reuse, Repair











Improve C&D Waste Diversion

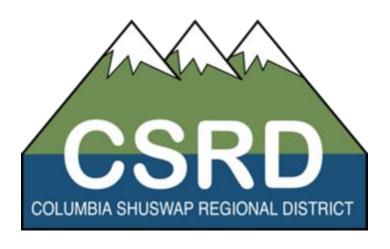
Continue to Subsidize Recycling Services in the CSRD where Appropriate



Fourteen Preferred Strategies (#8 - 14)





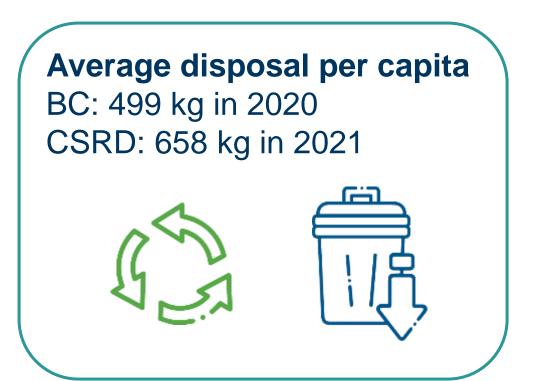


Reduction, Reuse, and Repair Strategy 1



Why is Waste Prevention and Diversion Important?

- To shift thinking to waste as a resource
- To limit waste going to landfill
- To support the guiding principles



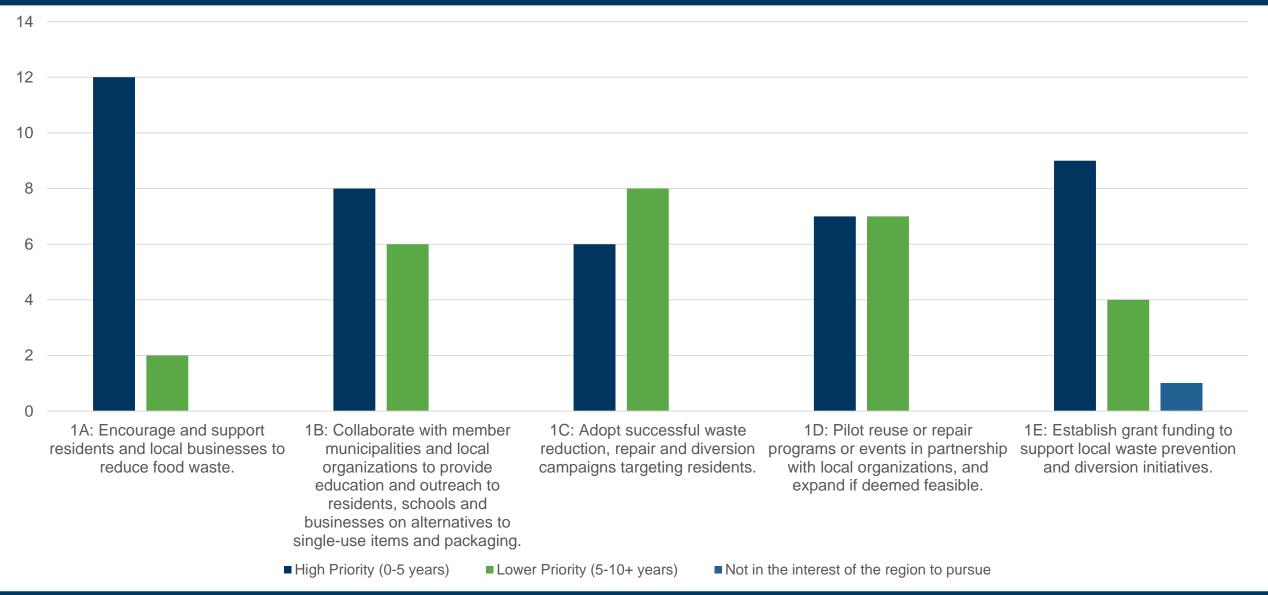


Opportunities to Improve Waste Prevention & Diversion





PTAC Priorities – Strategy 1: Waste Reduction and Diversion





Strategy 1: Improve Waste Prevention



1A: Encourage and support residents and local businesses to reduce food waste.



1B: Establish grant funding to support local waste prevention and diversion initiatives.



1C: Collaborate with member municipalities and local organizations to provide education and outreach to residents, schools, and businesses on alternatives to single-use items and packaging.



1D: Pilot reuse or repair programs or events in partnership with local organization and expand if deemed feasible.



1E: Adopt successful waste reduction, repair and diversion campaigns targeting residents.



Strategy 1: Improve Waste Prevention



1A: Encourage and support residents and local businesses to reduce food waste.

Year 1-5

\$7,000 in year 2

\$

1B: Establish grant funding to support local waste prevention and diversion initiatives.

Year 1-5

\$50,000 each year



1C: Collaborate with member municipalities and local organizations to provide education and outreach to residents, schools, and businesses on alternatives to single-use items and packaging.

Year 1-5

\$1,000 in year 2 & 3



1D: Undertake or support reuse or repair programs or events in partnership with local organization and expand if deemed feasible.

Year 1-10

\$5,000 in year 1, 3 & 6

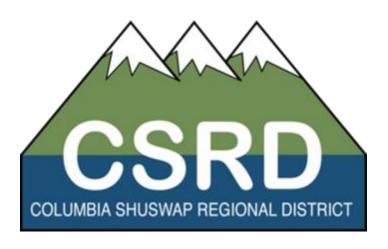


1E: Adopt successful waste reduction, repair and diversion campaigns targeting residents.

Year 5-10

\$5,000 in year 4 and 5





Recycling and Organics Diversion Strategies 2-7



Improve Access to Three-Stream Curbside Collection

- ~60% of the region's population has access to curbside collection
- Service levels differ between member municipalities
- CSRD does not operate curbside garbage or recycling collection programs





Strategy 2: Improve Access to Three-Stream Curbside Collection



2A: Provide better access to curbside recycling and organics collection in densely populated electoral areas, if deemed feasible.



2B: Support member municipalities to assess and implement three-stream curbside collection programs, if deemed feasible.



Strategy 2: Improve Access to Three-Stream Curbside Collection



2A: Support member municipalities to assess and implement three-stream curbside collection programs, if deemed feasible.

Year 1-5

\$10,000 in year 1, 2 & 3



2B: Implement three-stream curbside collection programs with priority on areas that meet Recycle BC's funding criteria.

Year 1-5

\$40,000 in year 2



Improve Organics Processing and Diversion Capacity



- Some communities still lack access to organics collection and composting facilities
- Potential for Golden to accept curbside organics and transfer it to the Revelstoke composting facility



Strategy 3: Improve Organics Processing and Diversion Capacity



3A: Partner with relevant municipalities and assess feasibility of organics processing solutions and implement if deemed feasible.



3B: Increase capacity of the Revelstoke composting facility.



Strategy 3: Improve Organics Processing and Diversion Capacity



3A: Partner with relevant municipalities and assess feasibility of organics processing solutions and implement if deemed feasible.

Year 1-5

\$20,000 in year 1



3B: Increase capacity of the Revelstoke composting facility.

Year 1-5

\$300,000 in year 1



Strategy 4: Improve Education and Enforcement

- Success of regulatory requirements needs:
 - effective education
 - enforcement
- CSRD currently lacks the staffing capacity for effective enforcement.





Strategy 4: Improve Education and Enforcement



4A: Partner with local, private service providers and organizations to provide better education on existing diversion opportunities and bylaws.



4B: Review contractor incentives for facilities operated by contractors to better encourage waste diversion.



4C: Increase CSRD enforcement capacity beyond current 2023 levels (e.g., staffing and equipment).



4D: Assess the cost-benefit of using contractor vs. in-house staff to operate CSRD facilities, and transition to in-house service if it is determined to be beneficial.



4E: Review options to simplify enforcement (e.g., clear bag requirement for landfill disposal, or use of AI technology), and implement if deemed feasible.



Strategy 4: Improve Education and Enforcement



4A: Partner with local, private service providers and organizations to provide better education on existing diversion opportunities and bylaws.

Year 1-5

\$10,000 per year



4B: Review contractor incentives for facilities operated by contractors to better encourage waste diversion.

Year 1-5

\$10,000 in year 2



4C: Increase CSRD enforcement capacity beyond current 2023 levels.

Year 1-5

Pay for 1 fulltime employee



4D: Assess the cost-benefit of using contractor vs. in-house staff to operate CSRD facilities, and transition to in-house service if it is determined to be beneficial.

Year 1-10

\$30,000 in year 4



4E: Review options to simplify enforcement (e.g., clear bag requirement for landfill disposal, or use of AI technology), and implement if deemed feasible.

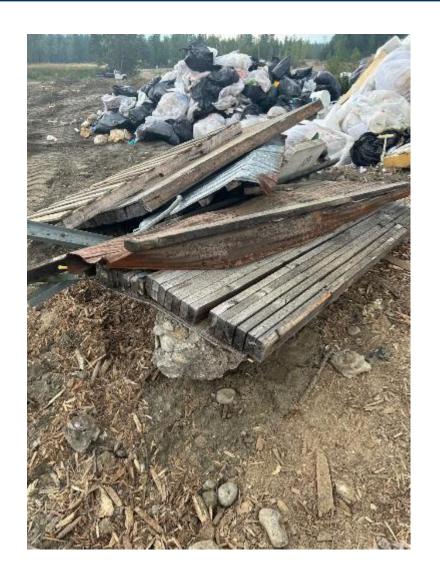
Year 5-10

N/A



Improve ICI Waste Diversion Through Regulatory Requirements and Education

- The ICI sector contributes over half of the disposed waste
- ICI (non-residential) includes:
 - schools, hospitals, restaurants, businesses, hotels and campgrounds
 - construction and demolition waste
- 2023 waste composition data show that ICI sources can divert 57% of landfilled waste





Strategy 5: Improve ICI Waste Diversion through Regulatory Requirements and Education



5A: Review effectiveness of current regulations and assess suitability to amend current bylaws and/or implement additional regulatory requirements, including waste hauler licensing and mandatory waste sorting.



5B: Establish ICI specific grant funding to support ICI waste prevention and diversion.



5C: Create an ICI waste diversion working group for developing and dispersing resources and education.



5D: Promote certifications that are aimed at waste prevention and diversion.



Strategy 5: Improve ICI Waste Diversion through Regulatory Requirements and Education



5A: Review effectiveness of current regulations and assess suitability to amend current bylaws and/or implement additional regulatory requirements, including waste hauler licensing and mandatory waste sorting.

Year 5-10

\$30,000 in year 5



5B: Establish ICI specific grant funding to support ICI waste prevention and diversion.

Year 1-10

\$10,000 per year



5C: Create an ICI waste diversion working group for developing and dispersing resources and education.

Year 5-10

N/A



5D: Promote certifications that are aimed at waste prevention and diversion.

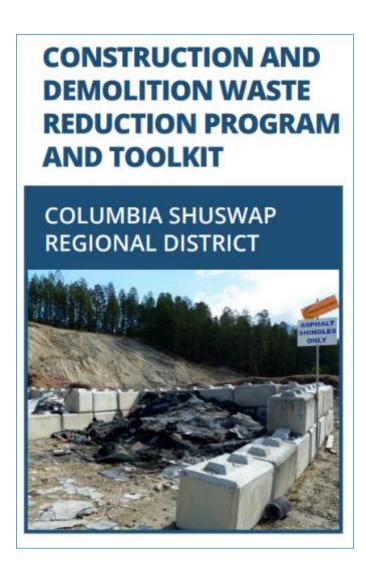
Year 5-10

N/A



Improve C&D Waste Diversion

- CSRD's differential tipping fee bylaw
- Construction and Demolition Waste Reduction Program and Toolkit
- C&D of buildings is regulated by the CSRD or by the member municipalities





Strategy 6: Improve C&D Waste Diversion



6A: Collaborate with member municipalities to conduct a feasibility study to determine what C&D regulatory approaches are best suited in the region and implement the most suitable ones.



6B: Support successful C&D waste diversion campaigns and initiatives targeting local demolition business and residents.



6C: Pilot C&D waste material separation to sort mixed C&D materials and divert them from landfilling through a third-party or the CSRD.



6D: Develop a C&D working group for developing and dispersing resources, education, and developing new resources.



Strategy 6: Improve C&D Waste Diversion



6A: Collaborate with member municipalities to conduct a feasibility study to determine what C&D regulatory approaches are best suited in the region and implement the most suitable ones.

Year 1-5

\$30,000 in year 4



6B: Implement successful C&D waste diversion campaigns and initiatives targeting local demolition business and residents.

Year 1-5

\$1,000 per year



6C: Pilot C&D waste material separation to sort mixed C&D materials and divert them from landfilling through a third-party or the CSRD.

Year 1-5

\$100,000 in year 3



6D: Develop a C&D working group for developing and dispersing resources, education, and developing new resources.

Year 5-10

N/A



Continue to Subsidize Recycling Services in the CSRD where Appropriate

- The cost to recycle and haul materials regulated under EPR exceeds revenue and funds from EPR
- CSRD is a member of the BC Product
 Stewardship Council
- CSRD offers recycling options beyond materials covered by EPR

















Strategy 7: Continue to Subsidize Recycling Services in the CSRD where Appropriate



7A: Continue to support recycling depots through subsidies.



7B: Continue to offer current or improved recycling services at CSRD facilities, where appropriate.



7C: Advocate for increased stewardship support to improve accessibility to recycling and cover recycling costs.



Strategy 7: Continue to Subsidize Recycling Services in the CSRD where Appropriate



7A: Continue to support recycling depots through subsidies.

Year 1-10

\$200,000 per year



7B: Continue to offer current or improved recycling services at CSRD facilities, where appropriate.

Year 1-10

N/A

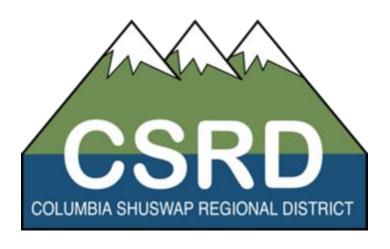


7C: Advocate for increased stewardship support to improve accessibility to recycling and cover recycling costs.

Year 1-10

N/A





Residual Waste Management Strategies 8-13



Improve Emergency Debris Management

- Extreme weather events are becoming more frequent and severe
- Need to develop a debris management plan to manage unpredictable surges in waste



2021 BC Floods Response

DEBRIS WASTE MANAGEMENT GUIDANCE





Strategy 8: Improve Emergency Debris Management



8A: Develop a debris waste management plan and emergency response plans for CSRD facilities to manage unpredictable surges in waste materials from natural disasters.



Strategy 8: Improve Emergency Debris Management



8A: Develop a debris waste management plan and emergency response plans for CSRD facilities to manage unpredictable surges in waste materials from natural disasters.

Year 1-5

\$50,000 in year 1



Prevent Wildlife Interactions

- Overall management of wildlife is responsibility of province and Conservation Officer Service
- Some municipal bylaws have specifications for waste collection to reduce wildlife interaction
- CSRD has collaborated with WildSafe
 BC to provide education to the community





British Columbia Conservation Foundation



Strategy 9: Prevent Wildlife Interactions



9A: Develop an education campaign, including info sessions for residents, around improving wildlife management



9B: Revise suitable waste-related bylaws to integrate requirements around wildlife attractants.



Strategy 9: Prevent Wildlife Interactions



9A: Develop an education campaign, including info sessions for residents, around improving wildlife management

Year 1-5

\$1,000 per year



9B: Work with member municipalities to incorporate requirements around wildlife attractants in collection bylaws.

Year 5-10

N/A

Prevent Illegal Dumping

- Currently directing users to "Report a Poacher and Polluter (RAPP)" line.
- There is a lack of resources to police illegal dumping, even though the CSRD can impose fines
- The CSRD works with volunteer organizations to clean up problem sites annually



Image from the Salmon Arm Observer

Strategy 10: Prevent Illegal Dumping



10A: Establish an illegal dumping task force and develop an illegal dumping strategy aimed to improve tracking and reduce the number of illegal dumping incidents.



Strategy 10: Prevent Illegal Dumping

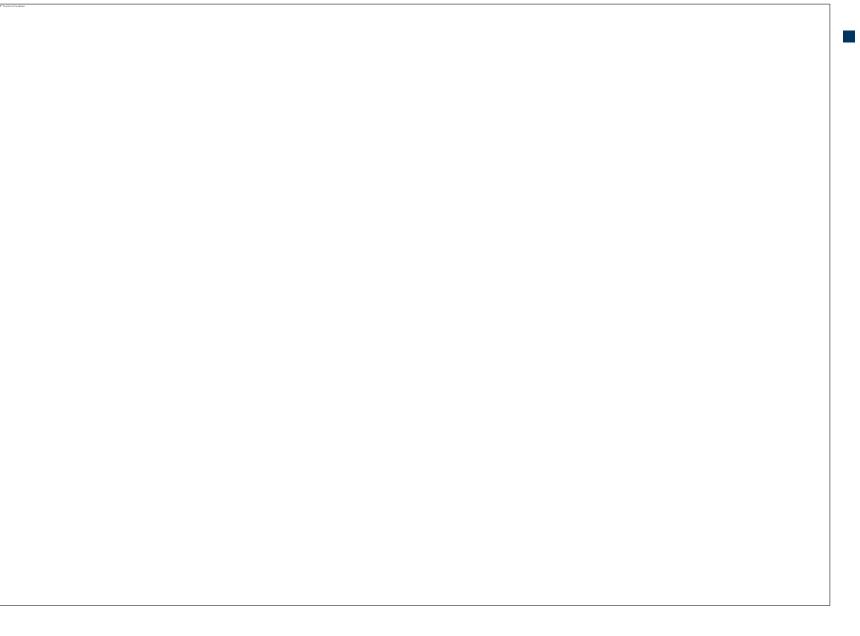


10A: Establish an illegal dumping task force and develop an illegal dumping strategy aimed to improve tracking and reduce the number of illegal dumping incidents.

Year 5-10

N/A





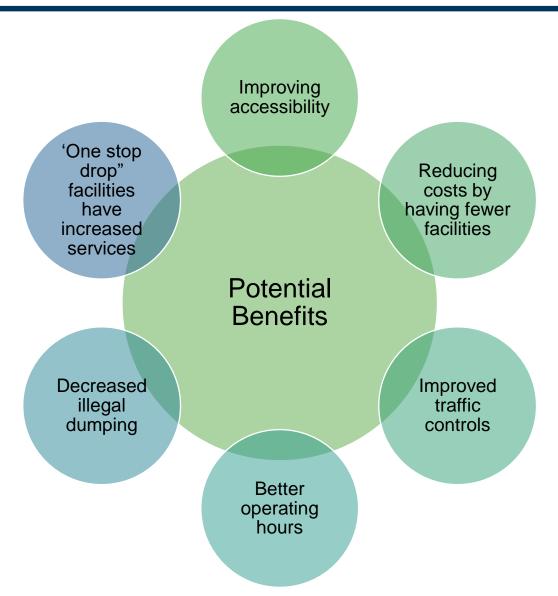
- CSRD facilities
 - 8 transfer stations
 - 4 landfills



Improve Transfer Station Network to Increase the Operational Efficiency and Level of Service to Users

Public feedback:

- Higher levels of services
 - Acceptance of a wider range of materials (composting, recycling)
 - Improved operational hours
 - Increase in facility capacity: Scotch Creek and Skimikin
- Better signage at facilities





Strategy 11: Improve Transfer Station Network to Increase the Operational Efficiency and Level of Service to Users



11A: Assess user demands at all facilities and increase operational hours at selected sites to improve access and meet seasonal demands.



11B: Conduct a transfer station assessment with siting and design options for sites that justify being amalgamated into centralized upgraded transfer station facilities.



Strategy 11: Improve Transfer Station Network to Increase the Operational Efficiency and Level of Service to Users



11A: Assess user demands at all facilities and increase operational hours at selected sites to improve access and meet seasonal demands.

Year 1-5

\$50,000 per year



11B: Conduct a transfer station assessment with siting and design options for sites that justify being amalgamated into centralized upgraded transfer station facilities.

Year 1-5

\$100,000 in year 2



Review Innovative Technologies to Maximize Disposal Capacity and Reduce GHG Emissions

Considerations:



There is currently no suitable proven waste-to-energy technology for the CSRD's size



Opportunity to maximize landfill capacity:

- -GPS to track and compact waste
- waste shredding to increase compaction



Opportunity to consider innovative landfill gas collection / co-generation opportunities



Strategy 12: Review Innovative Technologies to Maximize Disposal Capacity and Reduce GHG Emissions



12A: Collaborate with other regional districts to identify opportunities for energy recovery for non-recyclable materials, such as wood waste.



12B: Research and pilot new technologies or approaches that can help to maximize landfill capacity and GHG emissions from landfills.



Strategy 12: Review Innovative Technologies to Maximize Disposal Capacity and Reduce GHG Emissions



12A: Collaborate with other regional districts to identify opportunities for energy recovery for non-recyclable materials, such as wood waste.

Year 1-5

\$15,000 in year 5



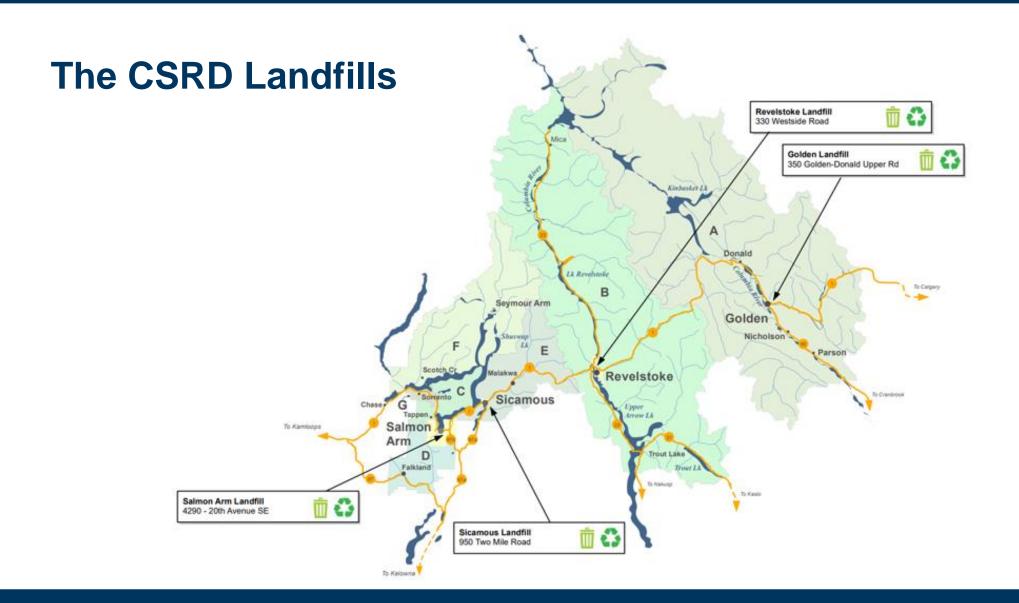
12B: Research and pilot new technologies or approaches that can help to maximize landfill capacity and GHG emissions from landfills.

Year 1-5

N/A



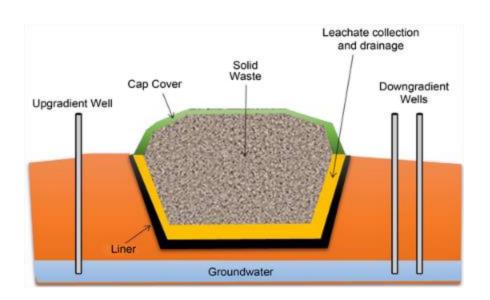
Regionalize the CSRD Landfills





Strategy 13: Regionalize the CSRD Landfills

- All four CSRD landfills are natural attenuation landfills
- Only Phase 2 of Salmon Arm Landfill is engineered
- Ongoing compliance issues at the landfills
- Significant cost increases through fines, costs to address compliance, or upgrades
- Three of the four landfills will need major capital upgrades



This Photo from CC BY



Next Steps to Determine Future of CSRD's Landfills

- DOCPs for Golden and Revelstoke Landfills are being updated
- Sicamous DOCP is completed
- DOCPs will help inform long-term landfill options and costs
- Need to consider impacts from landfill closures on other regional landfills



Strategy 13: Regionalize the CSRD Landfills



13A: Continue to collaborate with the MoE to find solutions for compliance issues related to natural attenuation landfills.



13B: Continue to lobby the MoE to standardize requirements on landfills in BC (e.g., litter control).



13C: TBC (long-term options)



Strategy 13: Regionalize the CSRD Landfills



13A: Continue to collaborate with the MoE to find solutions for compliance issues related to natural attenuation landfills.

Year 1-5

N/A



13B: Continue to lobby the MoE to standardize requirements on landfills in BC (e.g., litter control).

Year 1-5

N/A

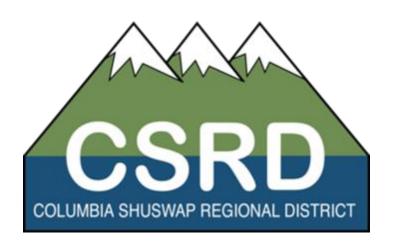


13C: To be confirmed

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Cost Recovery, System Efficiency and Financial Sustainability Strategy 14

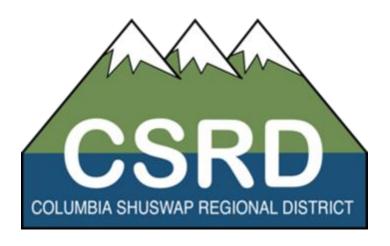


Strategy 14: Cost Recovery, System Efficiency and Financial Sustainability

? 14A: To be confirmed.

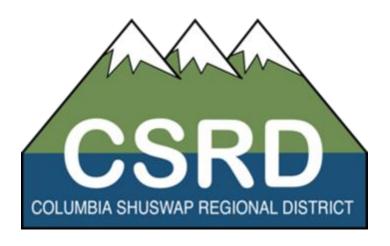
14B: To be confirmed.





Break – 15 minutes

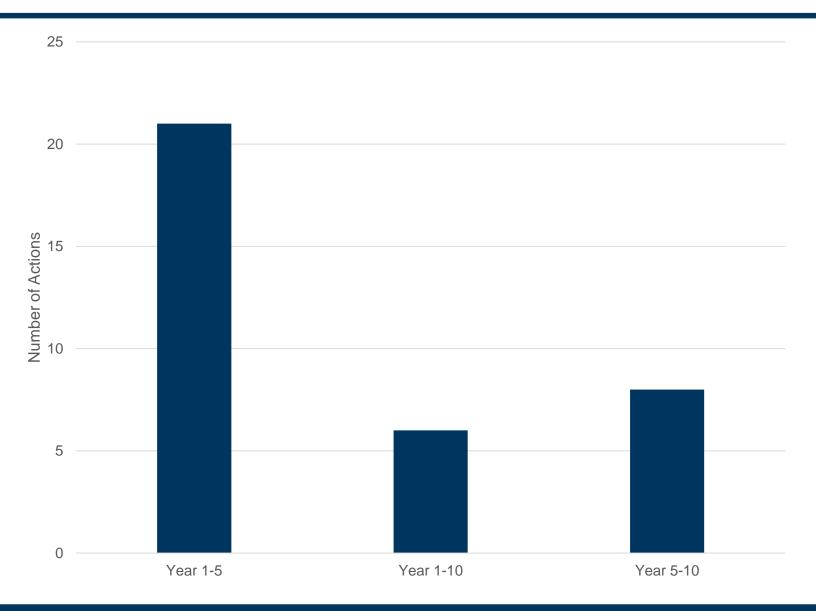




Discussion on CSRD's Priorities



Discussion on CSRD's Priorities

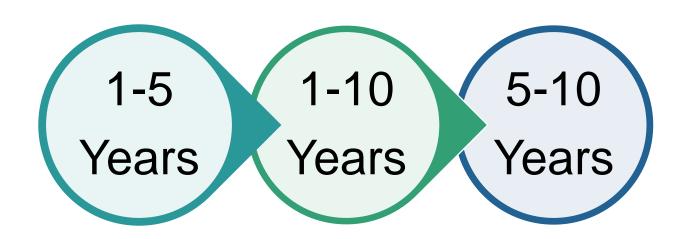




Activity

With your group:

- Look at what actions are under each of the 3 implementation periods
- Assess the priority and consider if any actions can be moved to distribute actions more evenly
- The actions are colour coded for each strategy

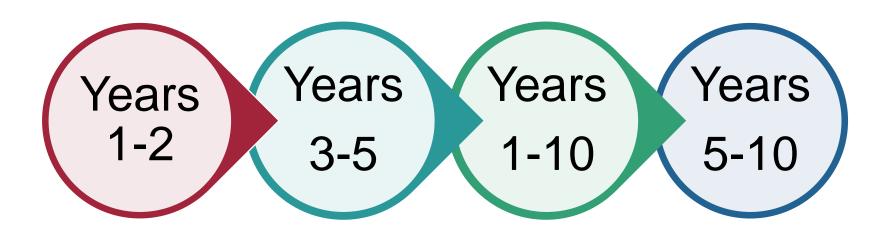




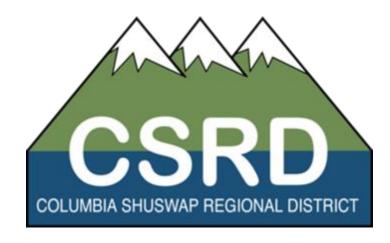
Activity

Together:

Looking at the actions you have placed in years 1-5, what actions are most important and should be focused on in years 1 and 2?







Next Steps



Next Steps - Future PTAC Meetings

2025)

Public engagement (mid 2025) Finalize Draft SWMP with all Preferred Strategies, actions and costs (Q1 2025) Disposal Options & Costing (Late 2024/Early

By end of 2025

- Board Approval
- Submit to MOE



Questions/Feedback?

After Meeting:
Share any additional feedback via link provided





