



Regional Solid Waste Management Plan Review

March 5th 2019
Advisory Committee Meeting #4

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Agenda

Welcome & Introductions

Action Items from Last Meeting

Review of Survey Results

~ WORKING LUNCH ~

Policies & Bylaws

Next Steps & Wrap-up



INTRODUCTIONS



JANUARY 23RD ACTION ITEMS



Action Items from Jan 23rd 2019

- 1.Cost for burying, diverting & recycling
 - These are included in the Stage 1 Report, Section 6 Finances & Section 7 Benchmarking
- 2.Review of Volume of Recycling
 - Completed (See Next Slide)

- 3. Review the return haul numbers used in calculation
 - Mistake in Elko return-haul distance will be corrected in final report



Action Items from Jan 23rd 2019

4. Central Subregion Rural Transfer Stations

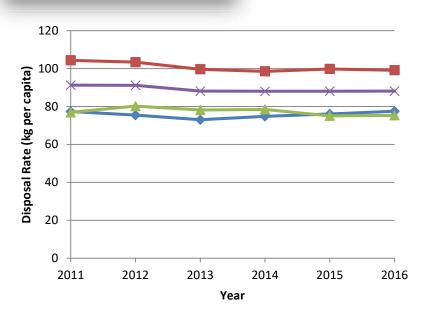
- Will be addressed as an "action item" in the SWMP
- Average distance between transfer station for neighbouring RD's has been discussed
- Also have discussed that RecycleBC depot locations aim to be within 30 –
 45 minute drive for residents

5. Recycling numbers versus solid waste

Included in the Stage 1 Report, Section 5 (Table 5-1)

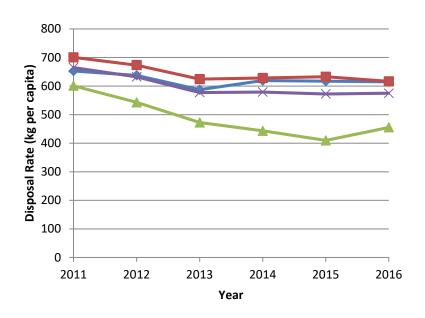


Action Items from Jan 23rd 2019

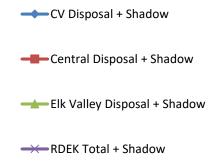


Per Capita Recycling Rate (including Shadow Population)





Per Capita Disposal Rate (including Shadow Population)





PLANNING PROCESS

RDEK SWMP UPDATE

Phase1

Assess existing system
Issues & Opportunities

Establish Technical Advisory Committee

Phase 2

Waste Diversion

Residual Waste Management

Policies & Bylaws

Financing

Putting it All Together

Phase 3

Community & stakeholder consultation

Finalize plan



RESULTS OF STAGE 1 PUBLIC SURVEY



Overview and Objectives

Goals of Survey:

- Public Engagement
- Gauge Public Satisfaction with Existing System
- Gauge Support for Possible Future Strategies and Initiatives

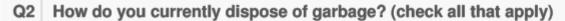
Promotion:

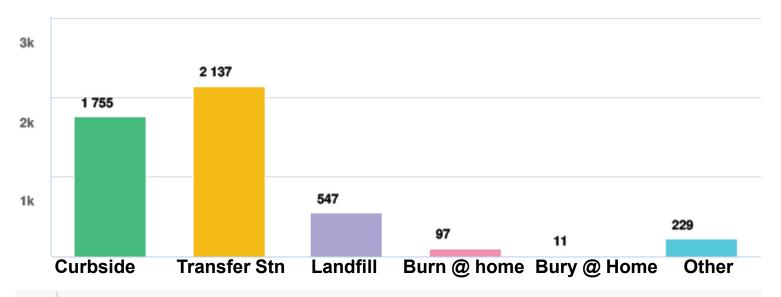
- Social Media (Facebook)
- Email List
- Radio Advertising
- Print Advertising



• > 3,200 Responses!

Garbage Disposal

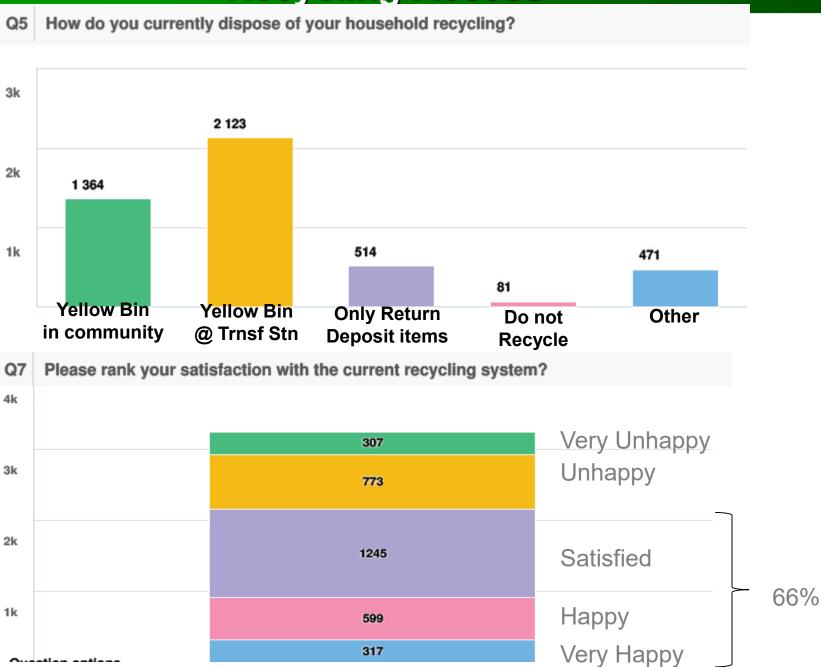




Q4 Please rank your satisfaction with your current garbage collection service



Recycling Access



Organics Management

Q8 How do you dispose of your yard waste (check all that apply):



Organics Management

Q12 Please rank your satisfaction with the following organics management in the East Kootenay:

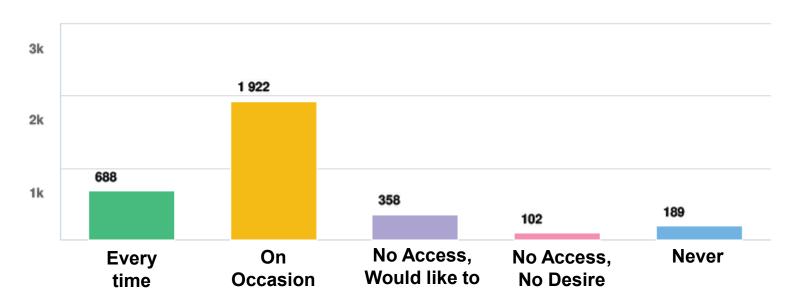


45% satisfied or happy

72% satisfied or happy

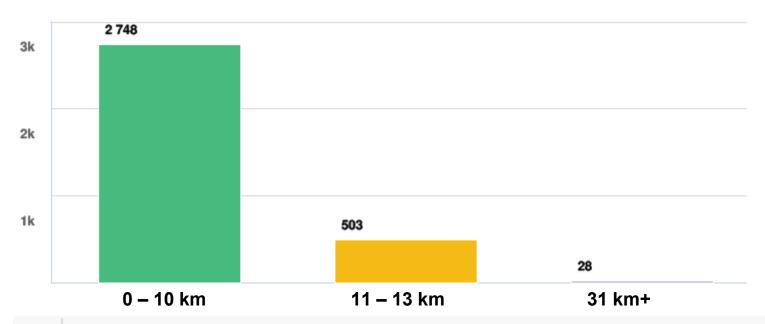
Reuse Centre (Share Shed)

Q13 How often do you use Reuse Centres at the transfer stations or landfill? (check all that apply)

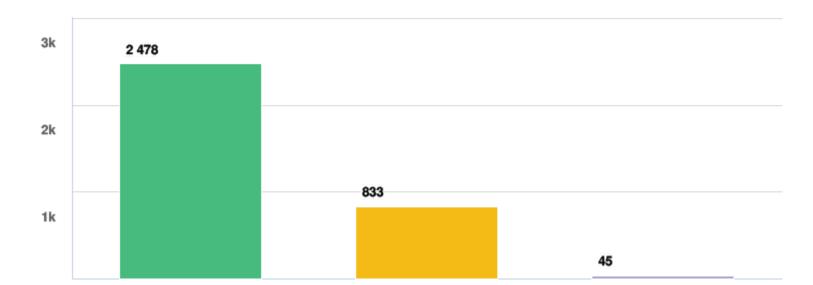


Travel Distance

Q14 How far do you currently travel to access a transfer station or landfill?

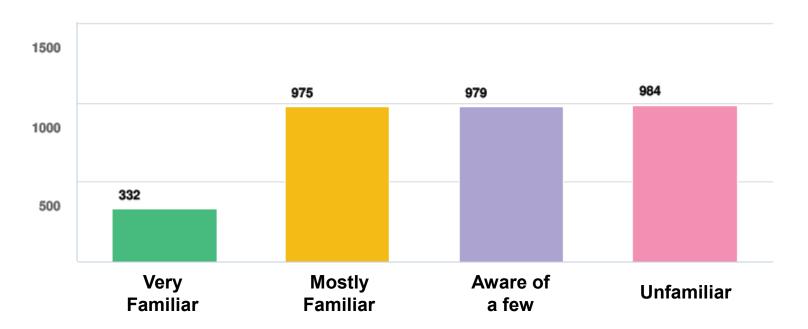


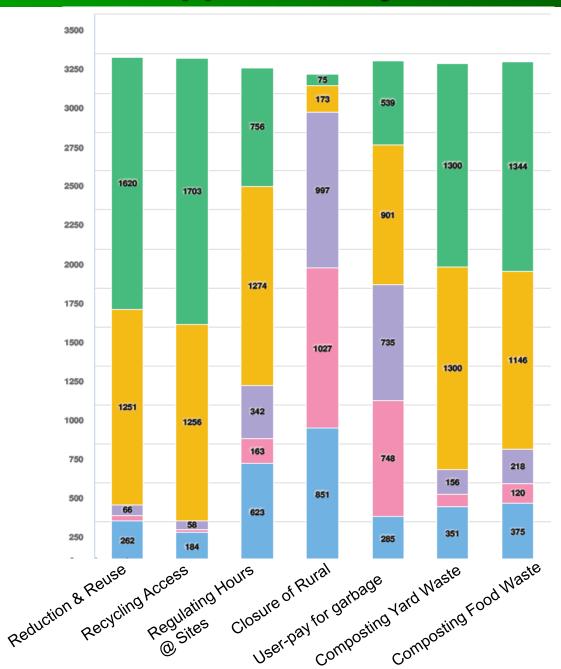
Q15 How far are you willing to travel to access a transfer station or landfill



Extended Producer Responsibility

Q16 Please rate your awareness of Extended Producer Programs in your area for materials such as bottles, light bulbs, small app...





Expand Reduction & Reuse

90% Support or Strongly Support

Expand Recycling Access

92% Support or Strongly Support



82% Support or Strongly Support

Composting for Food Waste

78% Support or Strongly Support





Increase Service but Regulate Hours (Rural sites)

- 64% Support or Strongly Support
- 20% Neutral
- 16% Oppose/Strongly Oppose

Close Small Rural Sites

- 8% Support or Strongly Support
- 27% Neutral
- 65% Oppose or Strongly Oppose

Introduce User-Pay

- 45% Support or Strongly Support
- 9% neutral
- 46% Oppose or Strongly Oppose





Additional Comments:

- Find ways to <u>reduce waste</u> sent to landfill
- Provide more recycling options at transfer stations (One Stop Drop)
 - EPR materials
 - HHW
 - Site attendant for education & tidiness
- Provide more education on solid waste services available
- Create <u>composting</u> solutions
- Explore <u>curbside collection</u> of garbage and recycling
- Prevent illegal dumping & provide enforcement
- Consider the seasonal population in waste management
- Explore Waste to Energy
- Ensure Ease of Use / Convenience
- Keep Costs Low



WORKING LUNCH



Provide Feedback on Initiatives

- Use the Sticky Notes provided to rate your support for proposed initiatives
 - Green Yes, I support adding this to the SWMP
 - Yellow I'm ok with this being added to the plan (Neutral)
 - Red I do not support this initiative

You can add a comment on the note to elaborate if you feel the need – or – simply use the sticky note to vote

Use the blank poster board to provide feedback on additional items



Provide Feedback on Initiatives

Waste Reduction and Diversion

- Reuse & recycling, EPR, increased diversion
- Assess best option for recycling throughout the region

Organics Diversion

- Promote food waste reduction and community initiatives
- Increase diversion of backyard compost & yard waste
- Explore feasibility for centralized composting

Residual Waste Management

- Assess rural transfer station system
- Consider amalgamation of sites in conjunction to upgrades and increased services

Policies and Bylaws

User Fee consistency, Illegal Dumping Prevention Strategy, WSML

Promotion and Education



POLICIES AND BYLAWS



Overview

- Tools that can enhance Solid Waste Management include:
 - User-Pay System
 - Disposal Bans
 - Illegal Dumping Prevention
 - Questions and Comments
 - Waste Stream Management Licensing
 - Questions and Comments



Overview

- Tools that can enhance Solid Waste Management include:
 - Extended Producer Responsibility
 - Zero Waste Initiatives
 - Promotion & Education
 - Questions and Comments



- Goal of user-fee is to support user-pay / polluter-pay principle & incentivize diversion
 - The more you throw out, the more you pay.
- Established at RDEK Landfills in April 2000 for:
 - Materials generated through economic activity (ex: demolition waste)
 - Materials requiring additional handling (ex: scrap metal)
 - Material requiring special handling (ex: asbestos)
 - Materials that could be source-separated and diverted
- Currently only enforced at attended sites



CENTRAL SUBREGION USER FEE SCHEDULE

SOLID WASTE (Commercial & Domestic Refuse) excluding Co	
Municipal Solid Waste (regular household garbage)	NO CHARGE
CONTROLLED WASTE (Including Industrial Refuse)	
Animal carcasses – livestock or big game	\$ 25.00 each
Asbestos, dry or slurry	\$ 100.00 per tonne
Biomedical Waste – treated only	\$ 160.00 per load
Construction/Demolition Waste - mixed (Railroad Ties)	
C&D Waste—from clean-up of waste illegally left on public land, metal & wood diverted	NO CHARGE
Food Processing Waste semi load of veggies/fruit	\$ 60.00 per tonne
Land Clearing Waste	
Mattresses or Box Springs	
Septic Sludge (where applicable)	
Soil – contaminated (not classified as special waste)	
Soil – not contaminated dirt hydro vaced goes here	
Steel Cables – must be on spool or cut to 1.2m lengths	·
RECYCLABLE MATERIAL	φ σσ.σσ por tornio
Asphalt – not contaminated	\$ 40.00 per tonne
Asphalt Shingles (at designated Asphalt Shingle areas only)	
Auto Batteries	
Auto Hulk – including pick up trucks & vans	
Chipped Green Wood Waste	
Clean Wood Waste	
Concrete – not contaminated	\$ 40.00 per tonne
Mobile Home Hulk *mobile homes must be accompanied by a Hazardous Materials Risk Assessment Report in order to be accepted	
Propane Cylinders – under 100 lbs.	
Scrap Metal – excluding white goods	
Tires: i) 17" or smaller	
ii) 17* or smaller with rim	\$ 14.00 per tire
iii) 18" – 25"	
iv) 18" – 25" with rim	\$ 56.00 per tire
v) larger than 25"	NOT ACCEPTED
Truck or Bus Hulk	NOT ACCEPTED
White Goods – major appliances	NO CHARGE
White Goods – requiring freon removal	NO CHARGE
Yard or Garden Waste – under 6" diameter	
CHARGES APPLICABLE TO ALL CATEGORIES	
Loads containing banned recyclable materials	Minimum \$100.00 or DOUBLE CHARGE
Uncovered or Unsecured Load	Minimum \$ 25.00 or DOUBLE CHARGE



User-Pay Strategies include:

- Differential rates for curbside garbage collection
 - Smaller carts associated with lower fees
 - Can be applied to Residential and Commercial users
- Variable fees that charge more for mixed wastes and charge less for recyclable materials such as concrete, asphalt, clean wood etc.



City of Portland, Oregon



- RDEK is one of the only regional districts in BC where residential & commercial waste is not subject to a tipping fee
- Expansion of RDEK user pay system could include:
 - Fees for excess volumes of waste (ex: 200 kg or more)
 - Volume based fees at sites without scale facilities
 (\$1.00 per bag of garbage or \$5.00 per pick-up truck)
 - Bag tags & Punch Cards allotted waste amount to residents,
 anything excess is accepted for a fee



Strategies for RDEK Consideration

- Continue to implement variable userfees on recyclable materials
- Ensure consistency in user-fees between the three subregions
- Encourage member municipalities to develop fee structures that encourage garbage reduction
- Consider phasing in user-fees for:
 - contaminated residential waste
 - residential loads in excess of normal (i.e. > 200 kilograms)
- Consider user-pay structure for commercial waste





Disposal Bans

Increased fees or financial penalty when throw away recyclable item(s) such as mixed recycling, cardboard, clean wood waste etc.

Example:

- Recyclable materials (cardboard, mixed recycling etc.) classified as "regulated"
- Any load that is brought to landfill with high amount of "regulated" materials are subject to an increased fee





Illegal Dumping Prevention

- Illegal dumping occurs in different forms, such as rural dump sites or items placed at the curb with a "free" sign.
- Strategies to combat illegal dumping include:
 - Increasing education and awareness
 - Offering a "Free Dump Day" at landfills
 - Providing support to community clean-up groups
 - Encouraging use of the province's RAPP
 Line (Report all Poachers and Polluters)
 - Establishing and enforcing bylaws to combat illegal dumping & holding garbage generators responsible







Questions or Comments



Waste Stream Management Licensing

British Columbia Environmental Management Act:

- A regional district may make bylaws to regulate the management of municipal solid waste or recyclable material including:
 - The types, quality or quantities of municipal solid waste or recyclable material that may be brought onto or removed from a site;
 - The burning of any class or quantity of municipal solid waste or recyclable material;
 - The transport of municipal solid waste or recyclable material within or through the area covered by the plan;
 - Requiring the owner or operator of a site or a hauler to hold a recycler licence, a waste stream management licence or a hauler licence, or comply with a code of practice;
 - The fees and charges that may apply to waste and recycling.



Waste Stream Management Licensing

- Metro Vancouver's Solid Waste and Recyclable Material Regulatory Bylaw
 - Regulated facilities include: disposal facilities, transfer stations, material recovery facilities, storage facilities, composting facilities.
 - Licenses specify types and amounts of acceptable materials, storage limits, requirements for handling and sorting, fees, proof of financial security, reporting and record keeping.







Waste Stream Management Licensing

The Regional District of Nanaimo (RDN) WSML Bylaw:

- Authorizes RDN to license all private or non-government operated MSW diversion and recycling facilities.
- Goal: ensure proper management of privately operated facilities to protect the environment and ensure that all facilities operate to equivalent standards.

Cowichan Valley Regional District WSML Bylaw:

- Any person wishing to operate a MSW or Recycling facility must obtain WSML from CVRD.
- Currently 8 licensed facilities in the CVRD.
- 6 month process for new applications





Questions or Comments



Extended Producer Responsibility

Extended Producer Responsibility
Programs (EPR) (also known as
Product Stewardship) provide recycling
of items such as antifreeze, used oil,
batteries, beverage containers, cell
phones, electronics, etc.











Strategies to manage EPR Products:

- Offer EPR collection at Regional District transfer stations and recycling depots
- Use private facilities which have EPR programs in place (ex: bottle depots or point of sale)





Extended Producer Responsibility

RDEK currently has agreements for Packaging and Printed Paper,

car batteries, tires, and used oil.

Recommendation:

- Continue to raise awareness for existing EPR Programs
- Continue to develop partnerships
 with stewardship agencies and provide
 diversion opportunities at RDEK sites,
 where feasible







Zero Waste Initiatives

Ways to Support Zero Waste:

- Provide zero-waste opportunities at public events, through different recycling, diversion, and composting options.
- Encourage and support independent initiatives spearheaded by community groups or organizations.
- Promote and raise awareness for Extended Producer Responsibility programs that are available to residents.



Columbia Valley Repair Café (www.cvmakerspace.ca/2017/11/21/repair-cafe-is-back/)



Students at EK Science Fair learn about Composting from Wildsight

(https://www.e-know.ca/regions/cranbrook/compost-wildsight-teaches-cranbrook-students/)



Zero Waste Initiatives

Ways to Support Zero Waste (Cont.):

- Promote and support single-use item reduction strategies by decreasing plastic shopping bags, take-out food containers, disposable straws, cups and utensils.
- Incorporate Zero-Waste into RDEK education program, delivered to schools, community groups, and at various public events
- Develop Waste Audit Kits for Commercial Sector
- Develop Green Procurement Policies

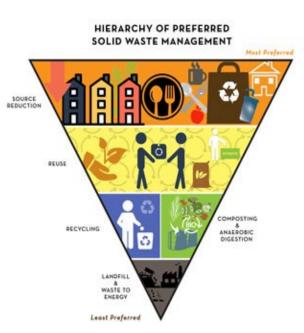






Promotion & Education

- Continue to provide solid waste promotion and education
- Look to incorporate social marketing strategies such as:
 - Developing videos on proper waste management
 - Providing motivating facts about waste and waste reduction in media releases
 - Developing interactive activities and games focussed around correct recycling and disposal
 - Assisting haulers in developing images and graphics that encourage proper waste disposal



https://zerowaste.dc.gov/about-zero-waste-dc





Questions or Comments



WRAP UP

Next Steps / Wrap Up

Next Meeting:

April 2nd 2019 (11am – 2pm)
 Financial Implications

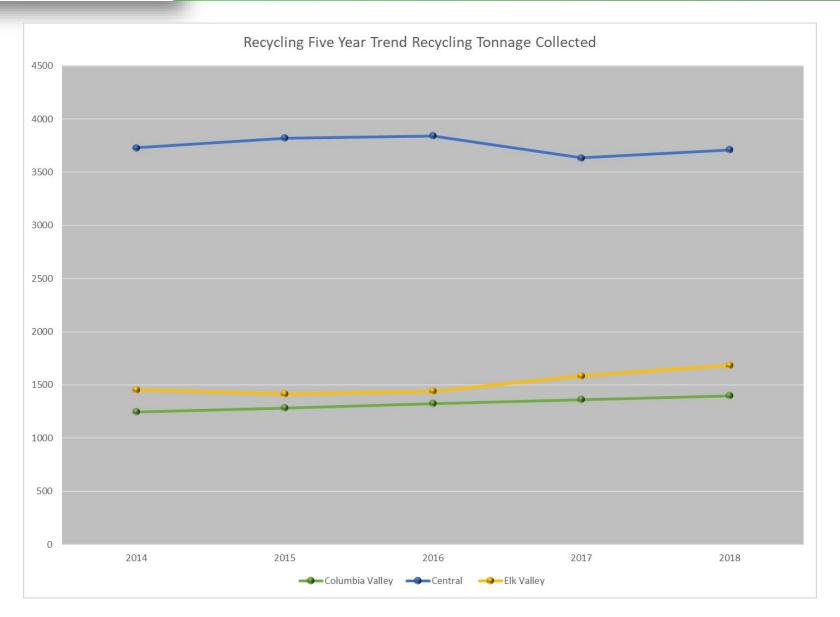


THANK YOU!





Action Items from Jan 23rd 2019





User-Pay System

Material	Units	District of Squamish	Regional District of Nanaimo	Regional District of Mount Waddington	Regional Disrict of Fraser Fort George	Thompson-Nicola Regional District	Columbia Shuswap Regional District	Regional District of Central Koctenay	Regional Distriα of Kootenay Boundary	Regional District of Okanagan Similkameen	Regional District of East Koctenaγ
MSW sorted	\$/tonne	\$150	\$125	\$125	\$82	\$80	\$80	85-100	\$110	\$110	\$0
MSW unsorted (ex. containing recyclables)	\$/tonne	\$320	\$250	\$125	\$82	double user fee	\$160	Double charge if contains >10% recyclables	no data	no data	min \$100 or double charge (Commercial Only)
Demolition and Land Clearing	\$/tonne	\$150	\$360	\$125	\$82	\$160	\$240	\$200	\$175	\$90 - \$700	\$200
Asbestos	\$/tonne	not accepted	\$500	\$125 if securely packaged \$325 if not securely packaged	\$301	cost of disposal plus user fee	\$160	\$100-\$170	\$110- \$175	no charge if deposited in designated area OR \$200 per tonne	\$100
Organic waste (food)	\$/tonne	no charge	\$110	no data	no data	no data	no data	no data	\$40	\$0 - \$60	\$0
Yard and Garden waste	\$/tonne	\$65	\$55	no charge	no charge	no charge	\$35	\$50	\$5 per load	\$0 - \$60	\$0
Clean Wood	\$/tonne	\$65	\$250	\$28	no charge	\$100	\$35	\$50	\$50	\$0 - \$60	\$0
Contaminated Wood		\$85	\$250	\$125	\$150	\$100	\$35	\$50	no data	\$0 - \$60	\$0
Corrugated Cardboard	\$/tonne	no charge	\$55	\$250	no charge	no charge	\$0 residential \$80 Commercial	no data	no charge	no charge	no data
Mattresses	\$/mattress	\$15	\$6	\$11	no data	\$5	\$15	no data	no data	\$10	\$0
Asphalt Shingles	\$/tonne	no charge	\$125	no data	no data	\$100	\$100	no data	\$60	\$60	\$0 - \$40
Metals	\$/tonne	no charge	\$55	no charge	no charge	no charge	\$35	\$40	\$30		\$0