

**REGIONAL DISTRICT OF BULKLEY-NECHAKO****WASTE MANAGEMENT COMMITTEE****AGENDA**

Thursday, April 14, 2022

<u>PAGE NO.</u>		<u>ACTION</u>
	<u>CALL TO ORDER</u>	
	<u>AGENDA</u> – April 14, 2022	Approve
	<u>SUPPLEMENTARY AGENDA</u>	Receive
	<u>MINUTES</u>	
3-7	Waste Management Committee Meeting Minutes – March 17, 2022	Approve
	<u>COMMITTEE ADVOCACY</u>	
	None	
	<u>SOLID WASTE ADVISORY COMMITTEE UPDATE</u>	
	None	
	<u>POLICY REVIEW</u>	
8-14	Alex Eriksen, Director of Environmental Services - Bylaw 1879 Schedule D: User Fees and Disposal Rules – Proposed Amendments	Discussion/ Receive
	<u>DIVERSION & RECYCLING</u>	
	None	
	<u>OPERATIONS UPDATE</u>	
15-17	Alex Eriksen, Director of Environmental Services - Wood Waste Operations Update	Receive
	Verbal Update – Department Activity	
	<u>MISCELLANEOUS</u>	
	Verbal Update – Cost Recovery Plan Review Deferral to May 2022	Receive

FUTURE MEETING TOPICS

- **Houston Recycling Depot at KLF – Discussion - May 2022**
- **Cost Recovery Plan – Review and Update – May 2022**
- **2m3 Rule Discussion – Strategy, Challenges, Enforcement – May 2022**
- **Daily Cover Material – Considerations for Sawmill waste (Hog fuel) – June 2022**

SUPPLEMENTARY AGENDA

NEW BUSINESS

ADJOURNMENT

REGIONAL DISTRICT OF BULKLEY-NECHAKO**WASTE MANAGEMENT COMMITTEE MEETING****Thursday, March 17, 2022**

PRESENT:	Chair	Mark Fisher
	Directors	Gladys Atrill – via Zoom – left at 2:15 p.m. Shane Brienen – via Zoom Chris Newell Jerry Petersen Michael Riis-Christianson – via Zoom Gerry Thiessen - left at 2:47 p.m.
	Staff	Curtis Helgesen, Chief Administrative Officer Cheryl Anderson, Director of Corporate Services Janette Derksen, Waste Diversion Supervisor Alex Eriksen, Director of Environmental Services John Illes, Chief Financial Officer Wendy Wainwright, Deputy Director of Corporate Services
	Others	Annette Morgan, Village of Telkwa – via Zoom Linda McGuire, Village of Granisle– left at 1:35 p.m.

CALL TO ORDER

Chair Fisher called the meeting to order at 1:28 p.m.

AGENDAMoved by Director Newell
Seconded by Director Riis-Christianson**WMC.2022-3-1**

“That the Waste Management Committee Agenda for March 17, 2022 be approved.”

(All/Directors/Majority)

CARRIED UNANIMOUSLY**MINUTES****Waste Management
Committee Meeting Minutes
February 10, 2022**Moved by Director Petersen
Seconded by Director Atrill**WMC.2022-3-2**

“That the Minutes of the Waste Management Committee for February 10, 2022 be approved.”

(All/Directors/Majority)

CARRIED UNANIMOUSLY**COMMUNITY ADVOCACY****Discussion Item – NCLGA or UBCM Extended Producer Responsibility (EPR) Resolution – Chair Fisher**

Extended Producer Responsibility (EPR) Programs supporting more than recycling programs

- Support for reuse/repair stewardship programs
- Provincial and Federal definition of EPR
- Funding for upcycling
- Potential for financial support for initiatives in northern BC and rural communities
- Chair Fisher will work with staff and bring forward a resolution for UBCM.

COMMUNITY ADVOCACY (CONT'D)

Verbal Update – Public
 Consultation Response
 -Expansion of BC Used Oil
 Management Association
 -Used Oil EPR

Moved by Director Petersen
 Seconded by Director Riis-Christianson

WMC.2022-3-3

“That the Committee receive the Verbal Update – Public Consultation Response-Expansion of BC Used Oil Management Association-Used Oil EPR.”

(All/Directors/Majority)

CARRIED UNANIMOUSLY

RDBN Membership to the
 Coast Waste Management
 Association

Moved by Director Atrill
 Seconded by Director Riis-Christianson

WMC.2022-3-4

“That the Committee receive the Waste Diversion Supervisor’s RDBN Membership to the Coast Waste Management Association (CWMA).”

(All/Directors/Majority)

CARRIED UNANIMOUSLY

SOLID WASTE ADVISORY COMMITTEE (SWAC) UPDATE

None

POLICY REVIEW

None

DIVERSION & RECYCLING

Disposal, Diversion & Revenue
 Part 1 – The Cost of Disposal

Moved by Director Thiessen
 Seconded by Director Atrill

WMC.2022-3-5

“That the Committee receive the Director of Environmental Services’ Disposal, Diversion & Revenue: Part 1 – The Cost of Disposal.”

(All/Directors/Majority)

CARRIED UNANIMOUSLY

Discussion took place in regard to having a full cost accounting in Part 2 of the Cost of Disposal.

Verbal Report – Recycle Depot Supply Challenges

Janette Derksen, Waste Diversion Supervisor provided an update.

- Discussions with Recycle BC and Green For Life Inc.
 - o Recycle BC has requested GFL to increase service levels
 - o Supplies are now being received
 - o Moving forward in a positive direction.

DIVERSION & RECYCLING (CONT'D)

Transfer Stations – Expanding Recycling Depot Programs

The following was discussed:

- Staff time to partner with bottle depots
- Bottle depots concerned regarding the loss of revenue regarding electronics
- Cost, revenue, site sharing challenges
- Option A and B
- Potentially implementing a Pilot Project
- Landfilling of electronics
- Benefits of one stop shop for recycling programs
- Competing with private business
- Current funding structure of Houston and Fraser Lake Bottle Depots.

Transfer Stations – Expanding Recycling Depot Programs Moved by Director Thiessen
 Seconded by Director Brienen

WMC.2022-3-6

“That the Committee recommend that the Board approve Option A – Expand RDBN Recycling Depot Programs to promote the “One-Stop-Shop” by taking on additional programs and receive the revenue for collected material as outlined in the Waste Diversion Supervisor’s Transfer Stations – Expanding Recycling Depot Programs memorandum.”

(All/Directors/Majority)

DEFEATED

Transfer Stations – Expanding Recycling Depot Programs Moved by Director Petersen
 Seconded by Director Atrill

WMC.2022-3-7

“That the Committee recommend that the Board work towards Option B – Establish collection points at RDBN Transfer Stations for Extended Producer Responsibility (EPR) programs currently managed by the Bottle Depots, who would receive the revenue through the stewards as outlined in the Waste Diversion Supervisor’s Transfer Stations – Expanding Recycling Depot Programs memorandum and that the information be brought forward to the Committee for consideration.”

(All/Directors/Majority)

CARRIED UNANIMOUSLY

RDBN Salvage and Re-Use Programs Moved by Director Petersen
 Seconded by Director Thiessen

WMC.2022-3-8

“That the Committee receive the Waste Diversion Supervisor’s RDBN Salvage and Re-Use Programs memorandum.”

(All/Directors/Majority)

CARRIED UNANIMOUSLY

DIVERSION & RECYCLING (CONT'D)

Discussion took place regarding the following:

- Moving forward with a pilot project regarding metal salvaging
- Fabric items to be discarded
- Concerns regarding designated metal salvaging areas and past issues of metal salvaging at RDBN Transfer Station and Landfill facilities
- Revenue from Metal
- Staff to bring back additional information and potential options for Committee consideration.

OPERATIONS UPDATE

Knockholt Landfill Update
-Waste Re-routing Plan

Moved by Director Thiessen
 Seconded by Director Newell

WMC.2022-3-9

“That the Committee receive the Director of Environmental Services’ Knockholt Landfill Update – Waste Re-routing Plan memorandum.”

(All/Directors/Majority)

CARRIED UNANIMOUSLY

Verbal Update – Department Activity

Alex Eriksen, Director of Environmental Services provided an update. He is currently preparing Request for Quotes and the Department received its used roll off truck today.

MISCELLANEOUS

Verbal Update – Pipeline Legacy Project: Wood Grinding

The following was discussed:

- CAO Helgesen and Chair Fisher met with Coastal GasLink regarding the potential purchase of a wood grinder
- Potential pipeline wood waste too significant of volumes for RDBN Solid Waste Management Facilities
- Researching potential legacy funding projects in regard to environmental services in the region.

Verbal Update – Debris Management Course Highlights

Ms. Derksen provided an overview of her attendance at the Solid Waste Association of North America (SWANA) Course regarding Debris Management in the event of a natural disaster.

FUTURE MEETING TOPICS

- Houston – Solid Waste and Recycling – April 2022
- Wood Waste Operations Update – April 2022
- Cost Recovery Plan – Review and Update – April 2022
- Disposal Fee Bylaw Changes – April 2022
- 2m3 rule – do we limit. Loopholes etc. – May 2022
- Consideration of accepting sawmill waste (Hogfuel) as daily cover material.

IN-CAMERA MOTION

Moved by Director Newell
Seconded by Director Brienen

WMC.2022-3-10

In accordance with Section 90 of the *Community Charter*, it is the opinion of the Board of Directors that matters pertaining to Sections 90(1)(a) personal information about an identifiable individual who holds or is being considered for a position as an officer, employee or agent of the regional district or another position appointed by the regional district (Regional Solid Waste Advisory Committee) therefore exercise their option of excluding the public for this meeting.

(All/Directors/Majority)

CARRIED UNANIMOUSLY

ADJOURNMENT

Moved by Director Newell
Seconded by Director Petersen

WMC.2022-3-11

“That the meeting be adjourned at 2:56 p.m.”

(All/Directors/Majority)

CARRIED UNANIMOUSLY

Mark Fisher, Chair

Wendy Wainwright, Deputy Director of
Corporate Services



**REGIONAL DISTRICT OF BULKLEY-NECHAKO
MEMORANDUM**

To: Chair Fisher and Waste Management Committee

From: Alex Eriksen, Director of Environmental Services

Date: April 14, 2022

Subject: Bylaw 1879 Schedule D: User Fees and Disposal Rules - Proposed Amendments

RECOMMENDATION

That the Committee review, discuss and provide input.

BACKGROUND

In April 2020, the Regional District of Bulkley-Nechako Solid Waste Management Facility Regulation and User Fee Amendment Bylaw No. 1879, 2019 was approved by the Ministry of Environment and adopted by the RDBN Board of Directors. Since implementation of the new fee schedule, staff have encountered challenges with the some of the wording as well as the need for additional categories to address new circumstances in the waste management operation. The proposed amendments offer clarity to what wastes are accepted, how the fees can be applied and an update to the disposal fees.

Staff would like to submit an amendment to the Ministry by June 2022.

The Ministry of Environment and Climate Change Strategy currently has a two-month approval process for simple Bylaw changes. Staff had inquired about separating disposal fees from the bylaw to bypass the Ministry approval process, but have been informed that this in not permitted.

PROPOSED AMENDMENTS TO SCHEDULE D: USER FEES AND DISPOSAL RULES

Bylaw 1879, Schedule D is presented below with corresponding proposed changes for each category. The rates present are for 2023 but can be implemented in 2022 if the approval process is completed. The Bylaw amendment may also include wording or specific rates to allow for annual CPI increases for the next 5 years.



SCHEDULE "D" TO BYLAW NO. 1879

USER FEES AND DISPOSAL RULES

(Applicable at all RDBN Solid Waste Facilities Except Manson Creek Landfill)

WASTE TYPE	USER FEES		Disposal Rules/Special Conditions
	Landfill	Transfer Station	
Household Waste	No Charge	No Charge	
Commercial/Institutional Waste	No Charge	No Charge	
Mixed CID- less than 2m ³	No Charge	No Charge	
Mixed CID- greater than 2m ³	\$90/metric tonne	Not Accepted	
Concrete- less than 2m ³	No Charge	No Charge	Size Restrictions Apply - Must be broken into pieces less than 12 inches in any direction.
Concrete- greater than 2m ³	\$90/metric tonne	Not Accepted	Size Restrictions Apply - Must be broken into pieces less than 12 inches in any direction.
Roofing/Asphalt Shingles - less than 2m ³	No Charge	No Charge	
Roofing/Asphalt Shingles - greater than 2m ³	\$90/metric tonne	Not Accepted	
Bulky Waste	\$90/metric tonne	Not Accepted	<ul style="list-style-type: none"> • Forty-eight (48) hours prior notice must be given to the Regional District for disposal; • Material must be deposited a minimum of one hour before Landfill closing time. • Materials only accepted for disposal at the Knockholt and Clearview Landfills.
Clean Wood Waste	No Charge	No Charge	Place in designated area
Contaminated Wood Waste	No Charge	No Charge	Place in designated area
Land Clearing Debris - less than 2m ³	No Charge	No Charge	<ul style="list-style-type: none"> • Place in designated area. Tree stumps and tree trunks or branches (greater than 6 inches in diameter), in any quantity, not accepted at Transfer Stations. These materials are only accepted at Landfills.
Land Clearing Debris - greater than 2m ³	\$90/metric tonne	Not Accepted	
Yard Waste	No Charge	No Charge	Place in designated area
Noxious Weeds	No Charge	No Charge	Must be bagged
Wet Organic Waste	No Charge	No Charge	Special handling procedures may apply. Loads may be directed to Landfills only.

Proposed Amendments
No change
No change
No change
\$110/MT and \$50/m ³ for small loads up to 6m ³ at TS on entire load.
No change
\$110/MT and \$50/m ³ for small loads up to 6m ³ at TS on entire load
No change
\$110/MT and \$50/m ³ for small loads up to 6m ³ at TS on entire load
\$110/load handling fee Travel Trailers, hot tubs, water craft, power poles etc.
No change
No change
Tree trunks 4ft lengths or smaller
\$110/MT > 4ft lengths, Stumps and large diameter only accepted at Landfill
No Change
No Change
No Change



SCHEDULE "D" TO BYLAW NO. 1879 (Con't)

USER FEES AND DISPOSAL RULES
(Applicable at all RDBN Solid Waste Facilities Except Manson Creek Landfill)

WASTE TYPE	USER FEES		Disposal Rules/Special Conditions	Proposed Amendment
	Landfill	Transfer Station		
Asbestos - Friable and Non-friable	\$90/metric tonne Flat Rate of \$100	Not Accepted	<ul style="list-style-type: none"> Requires approval of the Director; Forty-eight (48) hours prior notice must be given to the Regional District for disposal; Material must be deposited a minimum of one hour before Landfill closing time. Materials only accepted for disposal at the Knockholt and Clearview Landfills. 	\$110/MT or \$110 minimum charge if less than 1MT \$110 flat rate (Handling Fee) per load in addition to MT fees
Contaminated Soil - Characterized as commercial/industrial (CL/IL) or less than CL/IL	\$25/metric tonne Flat Rate of \$100	Not Accepted	<ul style="list-style-type: none"> Must be In-Region Source; Requires approval of the Director; Forty-eight (48) hours prior notice must be given to the Regional District for disposal; Material must be deposited a minimum of one hour before Landfill closing time; Materials only accepted for disposal at the Knockholt and Clearview Landfills. 	\$60/MT or \$60 minimum charge if less than 1MT No flat rate (handling fee)
Contaminated Soil - Characterized as greater than commercial/industrial (CL/IL) but less than Hazardous Waste	\$60/metric tonne	Not Accepted	<ul style="list-style-type: none"> Must be In-Region Source; Requires approval of the Director; Forty-eight (48) hours prior notice must be given to the Regional District for disposal; Material must be deposited a minimum of one hour before Landfill closing time; Materials only accepted for disposal at the Knockholt and Clearview Landfills. 	\$110/MT or \$110 minimum charge if less than 1MT Will likely not be accepted in the future (MoE)
Specified Risk Material - In-Region	No Charge	Not Accepted	<ul style="list-style-type: none"> Material is only permitted for disposal at the Knockholt and Clearview Landfills; Verification of Canadian Food Inspection Agency (CFIA) issued transportation permit required; Special handling procedures apply. 	No Change
Specified Risk Material - Out-Of-Region	\$100/metric tonne	Not Accepted	<ul style="list-style-type: none"> Material requires written approval of the Director; Forty-eight (48) hours prior notice must be given to the Regional District for disposal; Material is only permitted for disposal at the Knockholt and Clearview Landfills; Verification of Canadian Food Inspection Agency (CFIA) issued transportation permit required; Special handling procedures apply; Additional user fees may apply. 	\$110/MT or \$110 minimum charge if less than 1MT



SCHEDULE "D" TO BYLAW NO. 1879 (Con't)
USER FEES AND DISPOSAL RULES
(Applicable at all RDBN Solid Waste Facilities Except
Manson Creek Landfill)

WASTE TYPE	USER FEES		Disposal Rules/Special Conditions
	Landfill	Transfer Station	
Dead Animals and Dead Stock Excluding Specified Risk Material Waste	No Charge	No Charge	<ul style="list-style-type: none"> Any individual carcass or part of a carcass under 15 kg is considered a small animal, and any individual carcass over 15 kg is considered a large animal; Disposal of greater than two (2) large carcasses requires approval of the Director; Small animals may be disposed of in unlimited numbers; Small animals being disposed of must be contained in a sealed, waterproof container (heavy duty plastic bags are acceptable); Large animals may only be disposed of at a rate of one carcass per vehicle per day at transfer stations.
Slaughter House (Abattoir) Waste Excluding Specified Risk Material Waste	No Charge	No Charge	<ul style="list-style-type: none"> Material is only permitted for disposal at the Knockholt and Clearview Landfills; Special handling procedures apply.
ODS Appliances (units not defined by MARR eg. Commercial units or Ammonia cooled)	\$20 per unit	\$20 per unit	<ul style="list-style-type: none"> Not accepted at the Clearview Landfill Excluded from the Extended Producer responsibility MARR program
ODS Appliances (defined under the MARR program eg. Residential fridges/freezers/air conditioners/water Coolers/dehumidifier/wine cooler containing a refrigerant gas)	No Charge	No Charge	<ul style="list-style-type: none"> Not accepted at the Clearview Landfill Pertaining to the Extended Producer responsibility MARR program
Commercial ODS Appliances (Air-Conditioners)	\$80 per unit	\$80 per unit	<ul style="list-style-type: none"> Not accepted at the Clearview Landfill
Auto Hulks	No Charge	No Charge	<ul style="list-style-type: none"> Site restrictions may apply; All fluids, batteries, ODS and tires must be removed prior to disposal; <ul style="list-style-type: none"> Place in designated area; Not accepted at the Clearview Landfill.

Proposed Amendment
No Change
No Change
\$110/unit Handling fee Combine with commercial ODS
No change
\$110/unit Handling fee Combine with Non MARR
Must be able to offload without assistance. Assistance required: \$110 handling fee



Scrap Metal	No Charge	No Charge	<ul style="list-style-type: none"> Place in designated area; Large volumes of small items are to be placed in a metal container (welding rods, nails screws); Not accepted at the Clearview Landfill.
Metal Drums and Tanks			<ul style="list-style-type: none"> Material must be cut open and free of any liquids or contamination; Size restriction requirements may apply.

No Change
No Change

SCHEDULE "D" TO BYLAW NO. 1879 (Con't)

USER FEES AND DISPOSAL RULES
(Applicable at all RDBN Solid Waste Facilities Except Manson Creek Landfill)

WASTE TYPE	USER FEES		Disposal Rules/Special Conditions
	Landfill	Transfer Station	
Work Camp Construction/Demolition Waste	\$160 per metric tonne		<ul style="list-style-type: none"> Accepted at the Knockholt and Clearview Landfill facilities only (weighed on scales)
Work Camp Municipal Solid Waste	\$130 per metric tonne		<ul style="list-style-type: none"> Accepted at the Knockholt and Clearview Landfill facilities only (weighed on scales)
Temporarily Permitted Non-Permitted Recyclable Material	Originating from Work Camp - \$130/metric tonne Originating from Commercial, Industry and institutional facilities >2 cubic meters- \$130/metric tonne	<2 cubic meter Commercial loads - no charge	<ul style="list-style-type: none"> Loads >2 cubic meters are not accepted at the Transfer Station
Unsegregated loads	\$150 per metric tonne		<ul style="list-style-type: none"> Loads that are not segregated will be charged with this fee

Proposed Amendment
\$250/MT No handling fees (currently, difficult material is charged \$100/load)
\$180/MT
\$180/MT from all origins Approval from Director
\$180/MT on entire load, in addition to regular fees Greater than %10 of regulated material (cardboard, C&D, metal, tires) \$50/m ³ at TS for municipal and commercial haulers

Proposed NEW additions				
Waste Type	User Fees		Disposal Rules	Notes
	Landfill	Transfer Station		
Out-of-Region C&D	2x regular fees	Not accepted	<ul style="list-style-type: none"> Require Approval from the Director Speacial disposal Agreement required Unsegregated rules apply Handling Fees if applicable 	<ul style="list-style-type: none"> This waste will usually be from sepcific projects
Out-of-Region MSW	\$360/MT	Not accepted	<ul style="list-style-type: none"> Same as OoR C&D 	<ul style="list-style-type: none"> Should not be getting MSW from OoR This is 2 x camp MSW fee
Handling Fees	\$110/Load in addition to MT fees	Not applicable	<ul style="list-style-type: none"> Any load or item requiring additional handling At the discretion of the Director 	<ul style="list-style-type: none"> This term replaces “flat rate” can be applied as needed included admin charges
Scale Disruptions	\$50/m ³ Or Regular fees on average weight	Not applicable	<ul style="list-style-type: none"> Average weight from previous loads regular haulers can be used at regular fees. To be determined and approved by Director 	<ul style="list-style-type: none"> Based on conversion chart
Hydrovac soils	\$110/MT or \$110/m ³ including liquids	Not applicable	<ul style="list-style-type: none"> Do not currently accept 	<ul style="list-style-type: none"> This material would have to be included in the operation certificate
Biosolids	\$110/MT	Not accepted	<ul style="list-style-type: none"> Min 25% solids All other wording from Contaminated Soils 	<ul style="list-style-type: none"> Biosolids would have to be included in the operation certificate first



CLOSURE

Staff has identified the need to amend Schedule D – User Fees and Disposal Rules of Bylaw 1879, 2019 to accommodate changes in the RDBNs waste management strategy, market adjustments and new realities in our region

Respectfully Submitted,

Alex Eriksen
Director of Environmental Services



**REGIONAL DISTRICT OF BULKLEY-NECHAKO
MEMORANDUM**

To: Chair Fisher and Waste Management Committee
 From: Alex Eriksen, Director of Environmental Services
 Date: April 14, 2022
 Subject: Wood Waste Operations Update

RECOMMENDATION

For receipt.

BACKGROUND

In 2021, Environmental Services Staff evaluated the way wood waste was collected, transported, and disposed-of throughout the region. Historically, wood waste was collected at the transfer stations in a single bay and hauled by the RDBN to the Landfills for disposal. Knockholt, Granisle and Southside Transfer stations collected clean wood and brush separately for periodic, on-site burning.

Numerous initiatives were commenced in 2021 to improve operational efficiencies and reduce the impact on the landfill, which included the establishment of sorting bays, re-organizing hauling strategy, wood grinding and sourcing an air curtain burner.

CURRENT WOOD WASTE MANAGEMENT

Collection

Sorting bays for separating brush, clean dimensional lumber and Contaminated wood (painted, treated, stained, furniture etc.) have been established at the Smithers, Burns Lake, Area 'D' and Vanderhoof Transfer Stations. The separations bays provide a way to monitor the volumes of each material, allowing the RDBN to collect data for future diversion programs. These bays are accessible to the public for drop-off and for salvage (if safe to do so). In general, the sorting bays have been successful in achieving their purpose, however, if the wood bays are not managed properly and emptied before they are full, the public utilizes whatever space is convenient to dispose of their wood waste. At all sites, brush was kept contaminant free, but clean and contaminated wood became mixed.

Identified Challenges are: educating the public and more effective management of the bays.

In 2022, staff is planning to establish wood sorting bays at the Ft. St. James Transfer Station and the Knockholt Landfill. Staff is also considering the inclusion of larger diameter wood (currently limited to 6" diameter) and stumps.

Transport:

Formerly, wood waste was loaded and hauled to landfills by dedicating 2 days per week and emptying each site once per year. This strategy functioned but was often time-constrained and put unnecessary

pressure on sites and staff.

In 2021, an alternative wood waste hauling strategy was piloted in the Eastern RDBN. This new strategy utilized Roll-off bins at Ft. St. James and Area 'D' Transfer Stations which could be loaded by Site Attendants and hauled once per week which has the advantage of keeping the wood piles small and utilizing the existing Roll-off driver. In 2022, this strategy will be built-upon by adding a Roll-off truck to the RDBN fleet which will be driven by the current East Haul Driver or Field Assistant and minimize idle time. In addition, the excavator will be stationed at the Vanderhoof Transfer Station and used to load wood waste into the 53ft trailer and hauled by the current East Haul Driver or field assistant. This will allow for at least 1 load to be hauled from each Eastern site, once per week, while utilizing existing labour. Additional loads may be possible if the Temporary Landfill Attendant has capacity.

The wood waste hauling strategy in the western RDBN will remain as before, which will include rotating an excavator between the Burns Lake and Smithers Transfer Stations. This program will dedicate 1-2 days per week, and utilize the existing part-time waste haul driver, to transport wood to the Landfill.

Disposal:

Formerly, all wood waste was mixed and therefore landfilled except for minor amounts of clean wood and brush at Granisle, Knockholt and Southside which conducted periodic burning of this material.

Separating the wood waste offers opportunity for diversion. Currently there are no local markets for any of the material collected at RDBN Transfer Stations, however having source separated wood waste reduces the amount of landfilled material and thus saves airspace and extends the life of the landfills.

Contaminated wood waste is a challenging material to recycle and only specialized facilities can safely burn it. As Northern BC has no such facility, contaminated wood is destined for the landfill. Staff discovered that coarsely ground wood waste is used as daily cover material at other Landfills, which classifies it as "re-purposed" material and thus is not considered "disposal" under current regulation. In late 2021, staff arranged a wood grinding demonstration, to compare two types of grinders and assess the costs of both self-operating (rental) and contract grinding. At the Clearview Landfill and contractor was hired to grind 45 trailer loads of contaminated wood waste, which was accomplished in two (2) days for approximately \$20,000. The RDBN rented a smaller grinder and self-operated at the Smithers Transfer Station to process about 45 loads of contaminated wood waste, which was accomplished in two (2) weeks for approximately \$20,000. The ground material is ideal daily cover and reduces the need for soil. Moving forward, Staff will likely utilize both contract and rental grinding to process our wood, depending on need, availability and timing.

Brush and Clean Wood may have future markets in the region but currently the only option to divert this material from the landfill is to burn it. Obtaining authorization to open burn requires appropriate venting conditions (wind and vertical mixing) which greatly limits the ability to plan, especially during winter months. In January 2022, the RDBN purchased an air curtain incinerator (ACI) which can operate regardless of venting conditions as it is designed to reduce emissions. This ACI was tested in March and staff learned that, for efficient burning, we must adjust the way we handle brush to minimize the soil content of the stockpile. It was also realized that the clean wood (lumber) can be used as a tool to promote cleaner burning of poorer fuels. Overall, the ACI is a success and the operation will improve with experience.

CLOSURE



In 2021, staff made numerous changes to the way wood waste is collected, hauled and disposed. In general the new strategies have been successful, however, there are certain operations that have yet to be fully implemented and there are, of course efficiencies to be gained in 2022 and beyond.

Respectfully Submitted,

Alex Eriksen
Director of Environmental Services