

REGIONAL DISTRICT OF NANAIMO
SOLID WASTE MANAGEMENT SELECT COMMITTEE
AGENDA

Tuesday, March 5, 2019

1:30 P.M.

Board Chambers

Pages

1. CALL TO ORDER
2. APPROVAL OF THE AGENDA
That the agenda be approved as presented.
3. ADOPTION OF MINUTES
 - 3.1 Solid Waste Management Select Committee Meeting - January 10, 2019 3
That the minutes of the Solid Waste Management Select Committee meeting held January 10, 2019, be adopted.
4. INVITED PRESENTATIONS
 - 4.1 Love Food, Hate Waste
Staff will give verbal presentation.
5. DELEGATIONS
6. CORRESPONDENCE
 - 6.1 Russell Dyson, CAO, Comox Valley Regional District, re Monitoring Sustane Facility - Chester, NS 5
7. UNFINISHED BUSINESS
8. REPORTS
 - 8.1 Regional District of Nanaimo Tipping Fee and Solid Waste Disposal Regulation Bylaw No. 1784 10
 1. That the “Regional District of Nanaimo Tipping Fee and Solid Waste Disposal Regulation Bylaw No. 1784, 2019” be introduced and read three times;
 2. That the “Regional District of Nanaimo Tipping Fee and Solid Waste Disposal Regulation Bylaw No. 1784, 2019” be adopted.

8.2 Association of Vancouver Island and Coastal Communities Solid Waste Committee Update 44

That the Solid Waste Management Select Committee receives this report for information.

8.3 Out of Region Waste Disposal Request from qathet Regional District 49

That the Board approve the request from the qathet Regional District to accept municipal solid waste from residents of Lasqueti Island at Regional District of Nanaimo Solid Waste Management Facilities with the following conditions:

1. municipal solid waste from Lasqueti Island will be charged the prevailing Regional District of Nanaimo municipal solid waste tipping fee rate plus a 20% premium;
2. acceptance will be approved until March 1, 2026; and
3. the Board direct staff to amend *Regional District of Nanaimo Solid Waste Management Bylaw No. 1531, 2007*, Schedule 'D' to include these conditions.

9. BUSINESS ARISING FROM DELEGATIONS

10. NEW BUSINESS

11. ADJOURNMENT

REGIONAL DISTRICT OF NANAIMO
MINUTES OF THE SOLID WASTE MANAGEMENT SELECT COMMITTEE MEETING

Thursday, January 10, 2019
1:00 P.M.
Board Chambers

In Attendance:	Director B. Geselbracht	Chair
	Director K. Wilson	Electoral Area A
	Director L. Krog	City of Nanaimo
	Director D. Bonner	City of Nanaimo
	Director E. Hemmens	City of Nanaimo
	Director M. Swain	District of Lantzville
	Director T. Westbroek	Town of Qualicum Beach
Also in Attendance:	Director M. Young	Electoral Area C
	Director B. Rogers	Electoral Area E
	Director I. Thorpe	City of Nanaimo
	R. Alexander	Gen. Mgr. Regional & Community Utilities
	L. Gardner	Mgr. Solid Waste Services
	M. Larson	Solid Waste Planner
	R. Graves	Recording Secretary

CALL TO ORDER

The Chair called the meeting to order and respectfully acknowledged the Coast Salish Nations on whose traditional territory the meeting took place.

APPROVAL OF THE AGENDA

It was moved and seconded that the agenda be approved as presented.

CARRIED UNANIMOUSLY

ADOPTION OF MINUTES

Solid Waste Management Select Committee Meeting - October 4, 2018

It was moved and seconded that the minutes of the Solid Waste Management Select Committee meeting held October 4, 2018, be adopted.

CARRIED UNANIMOUSLY

INVITED PRESENTATIONS

Background on Solid Waste Services Function

L. Gardner presented.

It was moved and seconded that a letter of appreciation be sent to the Minister of Environment thanking him for the meeting at UBCM and request an update on the Solid Waste Management Plan submission.

CARRIED UNANIMOUSLY

REPORTS

Federation of Canadian Municipalities Vietnam Municipal Solid Waste Management Project

It was moved and seconded that the Board approve Solid Waste Services Manager, Larry Gardner, to participate as an expert volunteer on the Federation of Canadian Municipalities Vietnam Municipal Solid Waste Management Project, Step 1.

CARRIED UNANIMOUSLY

2018 Regional District of Nanaimo Curbside Outreach Program Summary

It was moved and seconded that the Solid Waste Management Select Committee receives this report dated January 10, 2019, for information.

CARRIED UNANIMOUSLY

ADJOURNMENT

It was moved and seconded that the meeting be adjourned.

CARRIED UNANIMOUSLY

CHAIR

Office of the Chief Administrative Officer

600 Comox Road, Courtenay, BC V9N 3P6
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Toll free: 1-800-331-6007
www.comoxvalleyrd.ca



File: 5360-60

February 22, 2019

Sent via email only: pcarlyle@rdn.bc.ca

Phyllis Carlyle
Chief Administrative Officer
Regional District of Nanaimo
6300 Hammond Bay Rd
Nanaimo, BC V9T 6N2

Dear Phyllis:

Re: Monitoring of Sustane Facility – Chester, Nova Scotia

The Comox Valley Regional District (Comox Strathcona Waste Management) Board (Board) continues to be interested in reducing waste disposal volumes and providing cost effective alternatives to landfilling. As follow-up to a Request for Information process completed in 2018, the Board plans to observe Sustane Technology Inc.'s progress as they work to commission and test their newly constructed facility in Chester, Nova Scotia. In support of this, the Board passed the following resolution at its February 7, 2019 meeting (Report attached):

THAT the Comox Valley Regional District (Comox Strathcona Waste Management) Board endorse the performance monitoring program as presented in the report titled "Performance Monitoring of Waste Management Technology – Chester, Nova Scotia," dated January 28, 2019, for a period of one year after successful start-up.

AND FURTHER THAT the Board approach the Cowichan Valley Regional District and the Nanaimo Regional District to request sharing of the costs and information related to performance monitoring.

We understand that the Regional District of Nanaimo and the Cowichan Valley Regional District may also have an interest in monitoring the performance of the Sustane facility in Chester. Per the above recommendation, we are seeking your feedback on sharing in both the cost and information gathered related to performance monitoring. We propose to take the lead in this work, to develop the detailed performance monitoring questionnaire and to work directly with Sustane to complete the monitoring and gather the performance related information. We expect this process to take one year from successful start-up of their facility.

In parallel with this letter to you, we have reached out to Sustane to request their feedback on the concept of performance monitoring.

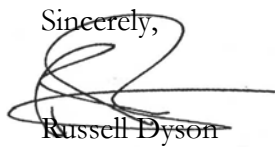
The above recommendation includes sharing of costs, which per the attached staff report are estimated to be \$20,400 and we propose to be apportioned to each regional district based on 2018 landfilled waste volumes generally as per the following table.

Regional District	Residual Waste (tonnes)¹	Share of Cost
Comox Valley	63,074	43% or \$8,800
Nanaimo	53,739	37% or \$7,500
Cowichan Valley	30,092	20% or \$4,100

Each regional district would be responsible for their own travel arrangements if a site visit to the Chester facility was desired

Please provide your feedback to the above and direct us to your key staff that we should work with on this initiative. If you have any questions or require further information, please contact Marc Rutten, General Manager of Engineering Services, email mrutten@comoxvalleyrd.ca or call 250-334-6080.

Sincerely,



Russell Dyson
Chief Administrative Officer

cc: Marc Rutten, General Manager of Engineering Services

Enclosure: Staff Report - Performance Monitoring of Waste Management Technology

\mb

¹ Based on AVICC solid waste data summary for 2016

DATE: January 28, 2019**FILE:** 5360-60**TO:** Chair and Directors
Solid Waste Advanced Technology Select CommitteeSupported by Russell Dyson
Chief Administrative Officer**FROM:** Russell Dyson
Chief Administrative Officer*R. Dyson***RE: Performance Monitoring of Waste Management Technology – Chester, Nova Scotia****Purpose**

To present the proposed methodology for performance monitoring of Sustane Technologies' (Sustane) waste management system currently under construction in Chester, Nova Scotia in order that the Solid Waste Advanced Technology (SWAT) Select Committee provide a recommendation to the Comox Strathcona Waste Management Board (Board).

Recommendation from the Chief Administrative Officer:

THAT the Comox Valley Regional District (Comox Strathcona Waste Management) Board endorse the performance monitoring program as presented in the report titled "Performance Monitoring of Waste Management Technology – Chester, Nova Scotia," dated January 28, 2019, for a period of one year after successful start-up.

AND FURTHER THAT the Board approach the Cowichan Valley Regional District and the Nanaimo Regional District to request sharing of the costs and information related to performance monitoring.

Executive Summary

The Comox Valley Regional District (Comox Strathcona Waste Management) Board (Board) has an interest in reducing waste disposal volumes and providing cost effective alternatives to landfilling. In support of these objectives, the Board posted a Request for Information (RFI) for Waste to Energy, now SWAT in the summer of 2017. The intent of the RFI process was educational in nature and not a competitive selection process.

Six submissions were received and evaluated based on high level criteria (innovation, technology, environmental/social and economic). Three technologies were selected for further detailed analysis and the final version of the report was provided to the SWAT Select Committee on April 5, 2018.

The highest ranked technology in the RFI process was Sustane, which converts waste into biomass fuel pellets and synthetic diesel, and recovers metals. Sustane's technology offers estimated lower costs than the other shortlisted technologies (although still higher than the status quo of landfilling); however, they attract greater risk for the Comox Strathcona Waste Management (CSWM) service due to a lack of installed infrastructure and untested technology. In consideration of this risk and the Board's continued interest in Sustane, the following resolution was approved on April 19, 2018:

THAT the Comox Strathcona Waste Management Board direct staff to monitor waste management technology proposed by Sustane Technologies Inc. in Nova Scotia, for up to one year of full operations;

AND FURTHER THAT a report on its effectiveness and efficiencies be presented to the CSWM Board following the monitoring period.

In order to act on the above CSWM Board direction, it is proposed that staff undertake the following key performance monitoring activities subsequent to the completion and commissioning of Sustane’s facility in Chester, Nova Scotia (which is currently scheduled for start-up in April 2019).

- The performance monitoring will include a set of detailed performance monitoring criteria and a performance monitoring timeline that will incorporate the following draft criteria (at a minimum):
 - Plant efficiency, plant uptime, fuel pellet production efficiency, synthetic oil production efficiency (actual vs design)
 - Operating costs, maintenance costs (pre and post full operation)
 - Fuel pellet quality, synthetic oil quality, residuals quality
 - Greenhouse gas implications for the life cycle of the process
 - Other important performance parameters identified by the monitor once retained
- Visit Sustane’s facility in Chester, Nova Scotia to witness and observe the facility in operation, to interview operators and maintainers, to interview Chester Solid Waste employees and to meet with Nova Scotia Environment
- Review all agreements between Chester and Sustane to confirm costs, risks and benefits to the community
- Identify other financial costs or benefits outside of the contract
- Review regulatory requirements of the Province of British Columbia
- Assess local market demand for by-products
- Identify potential unintended consequences, benefits and risks
- Use of qualified professionals will aid staff with legal opinions and performance monitoring. A modest budget accounts for this.

The following table summarizes the expected costs and resources required to complete the performance monitoring. This work can be accomplished within the current proposed 2019-2023 financial plan, which will cover expenses, incidentals, travel, legal and third party expertise as required. Also, other regional districts on Vancouver Island may be interested in alternative disposal options for their regions and in better understanding how Sustane’s technology performs in Chester. It is proposed to approach these other regions and request sharing of the costs and information related to performance monitoring.

Performance Monitoring Activity	Cost
Third party consultants to undertake legal reviews and development of draft performance monitoring criteria	20,400
Site Visit (4 representatives)	9,600
Total	\$30,000

It is expected that performance monitoring would be required over approximately one year following the full start-up and commissioning of Sustane’s facility in Chester. This period of time is recommended to help ensure consistent, continuous operation for measurement of all performance criteria and costs.

Prepared by:

M. Rutten

Marc Rutten, P.Eng.
General Manager of Engineering Services

Concurrence:

A. McGifford

Andrew McGifford, CPA, CGA
Senior Manager of CSWM Services

TO: Solid Waste Management Select Committee **MEETING:** March 5, 2019

FROM: Meghan Ebueza
Solid Waste Planner **FILE:** 5360-01

SUBJECT: Regional District of Nanaimo Tipping Fee and Solid Waste Disposal Regulation
Bylaw No. 1784

RECOMMENDATIONS

1. That the “Regional District of Nanaimo Tipping Fee and Solid Waste Disposal Regulation Bylaw No. 1784, 2019” be introduced and read three times;
2. That the “Regional District of Nanaimo Tipping Fee and Solid Waste Disposal Regulation Bylaw No. 1784, 2019” be adopted.

SUMMARY

The proposed Regional District of Nanaimo Tipping Fee and Solid Waste Disposal Regulation Bylaw No. 1784, 2019 (Tipping Fee Bylaw) is intended to replace the current Bylaw No. 1531 that establishes tipping fees and outlines the Regional District Solid Waste Management Facilities conditions of use. The proposed Tipping Fee Bylaw provides clearer definitions, and revises tipping fees and penalties. Due to the extensive redrafting of the current Bylaw it is appropriate to repeal rather than amend Bylaw No. 1531.

BACKGROUND

The Regional District of Nanaimo’s (RDN) Solid Waste Services operates two Solid Waste Management Facilities, the Regional Landfill and Church Road Transfer Station. The Tipping Fee Bylaw sets out the RDN Solid Waste Management Facilities conditions of use, tipping fee rates, and penalties.

Solid Waste Management Plan

The new Solid Waste Management Plan (SWMP) was adopted by the RDN Board in 2018 and is currently awaiting approval from the BC Minister of Environment. The SWMP calls for a diversion rate of 90% over the next 10 years. Increased diversion will extend the life of the landfill and decrease the annual tipping fee revenue generated at both RDN Solid Waste Management Facilities. Tipping fee revenue primarily finances solid waste services. Due to fixed costs, the operational costs of the Regional Landfill and Church Road Transfer Station only reduce nominally with a decrease in waste received. It is therefore necessary to increase tipping fees and/or increase taxation to offset revenues lost with reduced waste volumes. The proposed tipping fee increases are consistent with cost increases communicated to the public in the development of the SWMP.

Tipping Fee Bylaw Changes

The proposed Bylaw No. 1784 (Attachment 1) replaces the current Bylaw No. 1531 (Attachment 2).

Tipping fee revenue funds RDN Solid Waste Management Facility operations and Zero Waste programs that promote diversion throughout our region. The base tipping fee for municipal solid waste has remained at \$125 per tonne since the last tipping fee increase in 2013. The base tipping fee for municipal solid waste is proposed to increase to \$130 per tonne. Current base tipping fee rates for neighbouring regional districts are \$130 and \$140 per tonne (Attachment 3 for fee comparison with neighbouring jurisdictions).

It is proposed that the new fees will become effective on July 1, 2019. If the Bylaw is approved, Solid Waste Services will broadly communicate the change to give the public and businesses advance notice of the rate increase.

Format Changes

The proposed title change provides a more informative description of what the Tipping Fee Bylaw entails as the main role of this Bylaw is the establishment of tipping fees and solid waste disposal regulation at RDN Solid Waste Management Facilities.

Current Title *Regional District of Nanaimo Solid Waste Management Regulation Bylaw No. 1531, 2007*

New Title *Regional District of Nanaimo Tipping Fee and Solid Waste Disposal Regulation Bylaw No. 1784, 2019*

Formatting of the Tipping Fee Bylaw has been updated to meet the current standard requirements for RDN Bylaws.

Definitions

Definitions were updated to fall in line with similar regional district bylaws on Vancouver Island and across BC. The updated definitions make the Tipping Fee Bylaw easier to interpret.

Violations

Enforcement tools from the existing Bylaw have been retained and are:

- The ability for the RDN to cost recover expenses related to the cleanup of any waste received in contravention of the Bylaw;
- The ability to prohibit a person who contravenes the Bylaw from using the Solid Waste Management Facilities; and
- The ability to impose a fine for contravention of the Bylaw ranging from \$200 to \$2,000.

Proposed Changes to Tipping Fees (effective July 1, 2019)

Table 1 outlines the proposed changes to Tipping Fees.

Table 1. Proposed Changes to Tipping Fees

Material	Unit of Measure	Current Tipping Fee	Proposed Tipping Fee
Municipal Solid Waste	Per Tonne	\$125	\$130
Minimum Flat Rate	Varies	\$6	\$8
Surcharge per Mattress ¹	Per Unit	\$10 flat rate	\$15
Wood Waste	Per Tonne	\$250	\$260
Gypsum	Per Tonne	\$250	\$260
Corrugated Cardboard - Commercial	0-50kg	\$6	\$20
	Per Tonne	\$55	\$250
Contaminated Soil ²	Per Tonne	\$125	\$130
Controlled Waste	Per Tonne	\$250	\$260
Food Processing Waste	Per Tonne	\$250	\$260
Steel Cable	0-50kg	N/A	\$25
Grit and Screenings	Per Tonne	\$125	\$260
Bio Solids	Per Tonne	\$125	\$260
Pumpings - Paint Filter Test Passed	Per Tonne	\$250	\$130
Pumpings - Paint Filter Test Failed	Per Tonne	\$250	\$260

Penalties

The current Bylaw No. 1531 defines offences that are charged at a higher tipping fee rate for municipal solid waste and organic waste loads containing recyclables.

The SWMP proposes to increase education regarding waste diversion and to transition to a higher level of enforcement. The new Tipping Fee Bylaw sets penalties for loads containing contaminants at a level to encourage behavioural changes (i.e. diversion of materials). Table 2 and Table 3 outline the proposed penalties.

Table 2. Penalties – Municipal Solid Waste

Penalties – Municipal Solid Waste*		Per Load
a.	Municipal Solid Waste containing Recyclable Materials or Prohibited Waste 0-50kg	\$5
b.	Municipal Solid Waste containing Recyclable Materials or Prohibited Waste 50kg or greater	20% Surcharge

*Penalties for **Municipal Solid Waste** loads are based on visual identification of **Recyclable Material** or **Prohibited Waste** in excess of 15% of the load.

¹ Proposed Tipping Fee includes per unit fees for mattresses, box springs and/or hide-a-beds

² Means soil with concentrations of contaminants greater than those listed in the Contaminated Sites Regulation or soils containing waste material.

Table 4. Penalties – Organic Waste

Penalties – Organic Waste		Per Load
a.	Organic Waste containing non-organic material 0-50kg	\$5
b.	Organic Waste containing Municipal Solid Waste , recyclables or Prohibited Waste 50kg or greater	20% Surcharge

ALTERNATIVES

1. That the “Regional District of Nanaimo Tipping Fee and Solid Waste Disposal Regulation Bylaw No. 1784, 2019” be introduced and read three times; and
2. That the “Regional District of Nanaimo Tipping Fee and Solid Waste Disposal Regulation Bylaw No. 1784, 2019” be adopted.
3. That the Board receive the report titled “Regional District of Nanaimo Tipping Fee and Solid Waste Disposal Regulation Bylaw No. 1784, 2019” and provide alternate direction to staff.

FINANCIAL IMPLICATIONS

RDN Solid Waste Management Facilities and Zero Waste programs, excluding curbside collection, are funded primarily through tipping fees with taxation only contributing 7.3% of Solid Waste program revenues. For comparison, solid waste services revenues for 2015 by Association of Vancouver Island and Coastal Communities ranges from 0% to 162% taxation with an average of 53% taxation³ Budgeted operating expenditures, exclusive of the residential curbside collection utility have increased by \$926,000 from 2013 to 2019. Approximately \$500,000 of this increase can be attributed to increased expenditures for organics processing, and, the 2019 budget includes an increase of \$510,000 for new or expanded programs under the Solid Waste Management Plan.

Year over year changes in the economy, including value of the Canadian dollar, employment rates, and construction activity, dramatically affect the amount of waste generated, making it difficult to predict tipping fee revenues with accuracy. Based on current estimates, the proposed tipping fee increase will add approximately \$400,000 annually to tipping fee revenue. Introduction of the increase in July of this year will add about \$200,000 to 2019 revenues increasing the forecast contribution to reserves from \$1,500,000 to \$1,700,000. The reserve has been established to fund future facility capital expenditures including major equipment purchases, expansion of the landfill gas system and site closure. Furthermore, the 2019 budget includes a \$200,000 transfer to the landfill post-closure reserve which will bring the total reserve value to approximately \$2,280,000. The landfill currently has 24 years of remaining site life and an estimated post-closure cost liability of about \$12,000,000.

³ Extrapolated from *Association of Vancouver Island and Coastal Communities : The State of Waste Management*, September 2015, Table 4, Tetra Tech EBA

STRATEGIC PLAN IMPLICATIONS

Focus On Service And Organizational Excellence - As We Invest In Regional Services We Look At Both Costs And Benefits - The RDN Will Be Effective And Efficient

Changes to tipping fee rates as discussed in this report are consistent with the “user pay” recovery of operating costs, are still at a level that promotes waste diversion and encourages private waste innovation, and therefore, are consistent with the Board approved RDN Solid Waste Management Plan 2018. The proposed tipping fees are in line with other Regional District tipping fee rates within the Association of Vancouver Island Coastal Communities.



Meghan Ebueza
mebueza@rdn.bc.ca
February 14, 2019

Reviewed by:

- L. Gardner, Manager, Solid Waste Services
- R. Alexander, General Manager, RCU
- J. Bradburne, Finance
- P. Carlyle, Chief Administrative Officer

Attachments

1. Regional District of Nanaimo Tipping Fee and Solid Waste Disposal Regulation Bylaw No. 1784, 2019
2. Regional District of Nanaimo Solid Waste Management Regulation Bylaw No. 1531, 2007
3. AVICC Current Tipping Fee Rates 2018

**REGIONAL DISTRICT OF NANAIMO
BYLAW NO. 1784**

**A BYLAW TO ESTABLISH TIPPING FEE AND SOLID WASTE DISPOSAL REGULATION AT REGIONAL DISTRICT OF
NANAIMO SOLID WASTE MANAGEMENT FACILITIES**

WHEREAS the Regional District of Nanaimo has, pursuant to Solid Waste Disposal Local Service Establishment Bylaw No. 792, established a service for the disposal of waste and noxious, offensive or unwholesome substances;

AND WHEREAS the Regional District of Nanaimo is empowered to establish a scale of fees payable for depositing solid waste at Solid Waste Management Facilities;

AND WHEREAS the Regional District of Nanaimo operates Solid Waste Management Facilities for disposal of solid waste, and maintains a system to collect, remove, and dispose of Residual Solid Waste; and

NOW THEREFORE, the Board of the Regional District of Nanaimo in open meeting assembled enacts as follows:

1. TITLE

This bylaw may be cited as “Regional District of Nanaimo Tipping Fee and Solid Waste Disposal Regulation Bylaw No. 1784, 2019”.

2. DEFINITIONS

In this bylaw, unless the context otherwise requires:

- “Asbestos”** means waste that falls under one or more of the following categories:
- a. Waste containing friable asbestos fibres or asbestos dust as defined in the **Hazardous Waste Regulation**;
 - b. **Gypsum** that meets one of the following conditions:
 - i. manufactured prior to December 31, 1990 and has no analytical results that confirm it is non-Asbestos containing; or
 - ii. manufactured on or after January 1, 1991 without one of the following identifiers to qualify as recyclable **Gypsum**: barcode, date stamp or web address;
- “Bio Solids”** means stabilized, dewatered treatment plant sludge resulting from the treatment of municipal liquid waste;
- “Biomedical Waste”** means waste as defined in the **Hazardous Waste Regulation** as Biomedical Waste;
- “Bulky Waste”** means items 5 metres in length or 5 cubic metres in volume;

“Burnt Demolition Waste”	means waste extinguished for 21 days or waste with a letter from a recognized municipal, local or volunteer fire department stating the material is suitably extinguished for Disposal ;
“Clean Soil”	means soil with concentrations of contaminants less than those listed in the Contaminated Sites Regulation and soils not containing other waste materials;
“Contaminated Sites Regulation”	means the Contaminated Sites Regulation, B.C. Regulation 395/96, enacted under the Environmental Management Act ;
“Contaminated Soil”	means soil with concentrations of contaminants greater than those listed in the Contaminated Sites Regulation or soils containing waste material;
“Controlled Waste”	means a material, substance or object listed in Schedule ‘A’ which may create health hazards, nuisances or environmental pollution and may or may not be disposed of through Special Handling ;
“Commercial”	means originating from businesses or institutional facilities, including but not limited to, the following businesses and facilities: a) food wholesalers/distributors, b) food and beverage stores, c) hospitals, d) nursing and other residential care facilities, e) community food services, f) accommodation services with food services, g) food services and drinking places, h) educational facilities with food services, i) other facilities generating compostable organic material, and j) multi-family residences;
“Construction/Demolition Waste”	means waste produced from the construction, renovation, deconstruction and demolition of buildings, and other structures, but does not include Hazardous Waste or Recyclable Material ;
“Corrugated Cardboard”	means Recyclable Paper consisting of 3 or more layers of craft paper material and having smooth exterior liners and a corrugated or rippled core, but excluding containers which are impregnated with blood, grease, oil, chemicals, food residue, wax; or have polyethylene, polystyrene, foil or other non-paper liners; or are contaminated with a material which renders the Corrugated Cardboard not marketable;
“Dead Animal”	means the carcass or part of the carcass of an animal that requires Special Handling as per Schedule ‘B’ excluding Hazardous Waste and Specified Risk Material ;

“Disposal”	means leaving solid waste at Solid Waste Management Facilities , for the purpose of landfilling, composting or recycling;
“Drums”	means plastic or Metal barrels larger than 50 litres capacity;
“Dusty Material”	means material that can become airborne when being deposited or managed at Solid Waste Management Facilities , including, but not limited to: sawdust, insulation, foundry dust, ash and soot;
“Environmental Management Act”	means the <i>Environmental Management Act</i> (British Columbia), as amended, and any successor legislation and any regulations thereunder;
“Food Processing Waste”	means pre-consumer food waste that is unsuitable for composting;
“Garden Waste”	means uncontaminated vegetation removed from gardens, lawns, shrubs and trees and includes pruning from shrubs and trees to a maximum diameter of 75 mm and excludes Invasive Plant Species ;
“General Manager”	means a person appointed to the position of General Manager of the Regional District of Nanaimo or designate;
“Grit and Screenings”	means material and debris captured by screens or deposited in the collection or treatment of sewer systems;
“Gypsum”	includes, but is not limited to, new construction off-cuts or scraps and old wallboard that has been painted, covered in wallpaper, vinyl, ceramic tile, and lath and plaster and is removed during renovation and demolition, and excludes any material containing Asbestos ;
“Hazardous Waste”	means any chemical compound, mixture, substance or article defined as Hazardous Waste in the Hazardous Waste Regulation ;
“Hazardous Waste Regulation”	means Hazardous Waste Regulation, BC Reg. 63/88 enacted under the Environmental Management Act ;
“Invasive Plant Species”	means Garden Waste not accepted for composting and which may require Special Handling at the Regional District Landfill;
“Land Clearing Waste”	means stumps, tops, limbs and whole trees generated from the clearing of land and the small scale harvesting of merchantable timber but does not include Garden Waste ;
“Liquid”	means any portion of material that passes through and drops from a paint filter using the Paint Filter Test ;

“Mattress”	means a large, rectangular pad used as a bed or on a bed frame and include all sizes of mattresses, box-springs or foam sleeping pads;
“Manager”	means the person appointed to the position of Manager, Solid Waste Services within the Regional District ;
“Medical Facility Waste”	means Municipal Solid Waste originating from a hospital or health care facility that does not contain Biomedical Waste and does not require Special Handling ;
“Metal”	means recyclable ferrous and non-ferrous metallic materials but does not include ozone depleting substances (ODS) containing units unless properly certified as having refrigerants professionally removed or motor vehicle bodies and farm implements;
“Municipal Solid Waste”	means refuse that originates from residential, commercial or institutional sources or refuse specified to be included in the Regional District’s Solid Waste Management Plan pursuant to the Environmental Management Act ;
“Netting”	means fishing net, or similar type of netting material;
“Offence”	means the action of violating the Regional District’s solid waste management facility bylaw or solid waste management plan, as amended from time to time;
“Offensive Behaviour”	means aggressive, abusive, harassing, belligerent, threatening behavior, use of foul language or not following directions of Regional District staff directions;
“Organic Waste”	means compostable organic material including raw and cooked food waste from a Commercial or residential premise and includes but is not limited to: <ul style="list-style-type: none">a) fruits and vegetables,b) meat, fish, shellfish, poultry and bones thereof,c) dairy products,d) bread, pasta and baked goods,e) tea bags, coffee grounds and filters,f) soiled paper plates and cups,g) soiled paper towels and napkins,h) soiled waxed paper,i) food soiled cardboard and paper,j) egg shells, andk) waxed cardboard;

“Out of Region Waste”	means Municipal Solid Waste that originates outside the administrative boundaries of the Regional District unless otherwise specified in this bylaw;
“Paint Filter Test”	means the SW-846 Test Method 9095B: Paint Filter Liquids Test as outlined by the US Environmental Protection Agency;
“Prohibited Waste”	means a waste prohibited from Disposal under Schedule ‘C’;
“Pumpings”	means dewatered Liquid and semi-solid materials collected by a vector truck or pump and transported by vector truck, tanker truck or other container to the solid waste facility;
“Recyclable Material”	means materials that can be managed through existing recycling programs and for which a commercial market exists;
“Recyclable Paper”	means recyclable fibers, including: newspapers and inserts, magazines, telephone directories, catalogues, all office papers, envelopes, boxboard, paper bags and junk mail. It does not include: paper contaminated with food or grease, paper napkins, paper towels, tissue paper, composite paper products (e.g. paper adhered to plastic and/or Metal such as tetrapaks), gable-top containers (e.g. milk cartons), waxed cardboard, wax paper, photographs and carbon paper;
“Recyclable Plastic Containers”	means empty HDPE and LDPE plastic containers including milk jugs, margarine and yogurt containers and dish soap and laundry detergent bottles. Excluded are containers made of foam plastic such as Styrofoam, containers that held motor oil, Metal bottle lids or caps, and Metal attachments;
“Recycling Regulation”	means the Recycling Waste Regulation BC 449/2004 enacted under the Environmental Management Act ;
“Regional District”	means the Regional District of Nanaimo;
“Residual Solid Waste”	means that portion of Municipal Solid Waste for which no management option exists except landfilling at a Solid Waste Management Facilities but does not include Prohibited Waste under Schedule ‘C’;
“Resource Recovery Facility Waste”	means Residual Solid Waste from a Resource Recovery Facility having a Waste Stream Management License or is otherwise authorized in writing by the General Manager ;
“Roll-off Bin”	means an interchangeable container that can be separated from a hauling truck through the use of a mechanism integrated into the frame of the hauling truck;

“Roofing Material”	means asphalt singles, tar and gravel, torch-on and felts used in roofing construction;
“Solid Waste Management Facilities”	means the Regional District Landfill and Church Road Transfer Station, and other facilities the Regional District may establish from time to time. Solid Waste Management Facilities includes both the singular and plural;
“Special Handling”	means material handling that includes but is not limited to unloading assistance, review of test results, extra excavation, trenching, grinding, chipping, lining, extra cover or materials that pose an increased exposure risk;
“Specified Risk Material”	means any waste containing the Specified Risk Material as defined in the federal Fertilizers Regulations (C.R.C., c. 666), as amended from time to time, including material from the skull, brain, trigeminal ganglia, eyes, tonsils, spinal cord and dorsal root ganglia of cattle aged 30 months or older, or material from the distal ileum of cattle of all ages;
“Stewardship Materials”	means any waste or recyclable materials included and defined in an approved stewardship plan as defined in the Recycling Regulation ;
“Superintendent”	means the person appointed to the position of Superintendent, Scale and Transfer Services in the Regional District ;
“Surcharge”	means the amount charged by the Regional District , in addition to the applicable Tipping Fee;
“Tires”	means all rubber tires excluding bicycle tires;
“Treasurer”	means the Director of Finance of the Regional District or her or his authorized agent;
“Wood Waste”	means wood products such as dimensional lumber, plywood, particle board, fibre board, oriented strand board, pallets, crating, wood fencing, wood shingles or wooden doors and may be contaminated with coatings or other materials that has been separated from other Construction/Demolition Waste ;
“Unsecured Load”	means that a load that is not properly secured, either with a tarpaulin cover or tie-down apparatus to prevent any of the load escaping, or falling off of the haul vehicle.

3. CONDITIONS OF USE

- 3.1. No person shall deposit **Municipal Solid Waste** at **Solid Waste Management Facilities**, except in accordance with this bylaw.
- 3.2. No person shall deposit **Prohibited Waste** at **Solid Waste Management Facilities**.
- 3.3. All persons must adhere to **Special Handling** procedures as listed in Schedule 'B' prior to **Disposal** of **Controlled Waste** at **Solid Waste Management Facilities**.
- 3.4. Any load containing **Dusty Material** must be securely bagged prior to **Disposal**.
- 3.5. No person shall salvage or remove material deposited at **Solid Waste Management Facilities**.
- 3.6. No person shall leave their vehicle unattended at **Solid Waste Management Facilities** unless approved by the **Superintendent** or **Manager**.
- 3.7. Any person arriving at **Solid Waste Management Facilities** for **Disposal** shall proceed directly to the weigh scale and then leave the **Solid Waste Management Facilities** without delay after unloading.
- 3.8. Persons entering **Solid Waste Management Facilities** do so at their own risk. The **Regional District** accepts no liability whatsoever for damage and/or injury to persons or property at the **Solid Waste Management Facilities**.
- 3.9. Children under 13 years of age, and pets shall not be permitted at the **Solid Waste Management Facilities** except inside a vehicle.
- 3.10. No person shall deposit **Out of Region Waste** at a **Solid Waste Management Facilities**.
- 3.11. Despite Section 3.10, the Board may authorize deposit of **Municipal Solid Waste** from another regional district upon request from their regional district Board of Directors.
- 3.12. **Disposal** of waste in the active face area or designated areas at **Solid Waste Management Facilities** requires all persons, with exception of the self-haul drop-off areas, to comply with Work Safe BC Occupational Health and Safety Regulation, Policy and Guidelines, Part 8 Personal Protective Clothing and Equipment.
- 3.13. **Offensive Behaviour** is not permitted at **Solid Waste Management Facilities** and may result in removal and future expulsion from the sites.

4. SCHEDULES

For the purpose of this bylaw, Schedule 'A' through Schedule 'E' are attached to and form part of this bylaw.

5. FEES AND VIOLATIONS

- 5.1. Any person depositing **Municipal Solid Waste** at **Solid Waste Management Facilities** shall pay to the **Regional District** the applicable fees set out in Schedule 'A' and Schedule 'E'.
- 5.2. No person shall do any act or suffer or permit any act or thing to be done in contravention of this bylaw.
- 5.3. Any person who contravenes this bylaw, by doing any act which the bylaw forbids, or omitting to do any act which the bylaw requires is guilty of an **Offence** and is liable, on summary conviction, to a fine of not less than TWO HUNDRED DOLLARS (\$200.00) and not more than TWO THOUSAND DOLLARS (\$2,000.00). A separate **Offence** shall be deemed to be committed upon each day during and in which the contravention occurs or continues.
- 5.4. The **General Manager** and/or **Manager** may prohibit a person who contravenes this bylaw from depositing **Municipal Solid Waste** at **Solid Waste Management Facilities**.
- 5.5. Any waste received in contravention of this bylaw or instructions provided by the **Regional District** at the **Solid Waste Management Facilities** may be subject to a cost recovery fees for contamination cleanup, **Special Handling** and/or **Disposal**.

6. REPEAL

"Regional District of Nanaimo Solid Waste Management Bylaw No. 1531, 2007" and any amendments thereto are hereby repealed.

7. EFFECTIVE DATE

Introduced and read three times this ____ day of _____ 2019.

Adopted this ____ day of _____ 2019.

CHAIR

CORPORATE OFFICER

Schedule 'A' to accompany "Regional District of Nanaimo Tipping Fee and Solid Waste Disposal Regulation Bylaw No. 1784, 2019"

Chair

Corporate Officer

Schedule 'A'

Fees and Procedures for use of **Solid Waste Management Facilities** effective July 1, 2019.

1.	Solid Waste, excluding <i>Controlled Waste</i>	Flat Rate	51 kg or greater
a.	Municipal Solid Waste	\$8.00/0-50kg	\$130.00/tonne
b.	Medical Facility Waste	\$8.00/0-50kg	\$130.00/tonne
c.	Resource Recovery Facility Waste	\$8.00/0-50kg	\$130.00/tonne
d.	Roofing Material (asphalt/tar/gravel)	\$8.00/0-50kg	\$130.00/tonne
e.	Construction/Demolition Waste	\$8.00/0-50kg	\$130.00/tonne
f.	Weighing service	\$20.00	
g.	Surcharge for Unsecured Loads	\$20.00	
h.	Surcharge per Mattress	\$15.00/unit	

2.	Recyclables	Flat Rate	51 kg or greater
a.	Organic Waste	\$8.00/0-50kg	\$110.00/tonne
b.	Garden Waste	\$8.00/0-100kg	\$55.00/tonne
c.	Wood Waste	\$8.00/0-50kg	\$260.00/tonne
d.	Gypsum	\$8.00/0-50kg	\$260.00/tonne
e.	Metal , metal appliances with ODS (ozone depleting substance)	\$8.00/0-500kg	\$55.00/tonne
f.	Corrugated Cardboard – Residential	\$8.00/0-50kg	\$55.00/tonne
g.	Corrugated Cardboard – Commercial	\$20.00/0-50kg	\$250.00/tonne
h.	Miscellaneous recyclables including: household plastics, metal food and beverage containers and vehicle batteries.	\$8.00 flat rate	
i.	Surcharge for ODS containing appliances	\$15.00/unit	

3.	Controlled Waste	Flat Rate	51 kg or greater
a.	Contaminated Soil	\$8.00/0-50kg	\$130.00/tonne
b.	Controlled Waste including large Dead Animals	\$8.00/0-50kg	\$260.00/tonne
c.	Food Processing Waste		\$260.00/tonne
d.	Steel cable	\$25.00/0-50kg	\$500.00/tonne
e.	Asbestos	\$30.00/0-50kg	\$500.00/tonne
f.	Grit and Screenings	\$8.00/0-50 kg	\$260.00/tonne
g.	Bio Solids	\$8.00/0-50 kg	\$260.00/tonne
h.	Pumpings – Paint Filter Test (Passed)	\$8.00/0-50 kg	\$130.00/tonne
i.	Pumpings – Paint Filter Test (Failed)	\$8.00/0-50 kg	\$260.00/tonne

4. Every person who disposes of waste for landfilling at **Solid Waste Management Facilities** that contains **Recyclable Material** or **Prohibited Waste** must pay a penalty as defined in the table below:

Penalties – Municipal Solid Waste*		Per Load
a.	Municipal Solid Waste containing Recyclable Materials or Prohibited Waste 0-50kg	\$5
b.	Municipal Solid Waste containing Recyclable Materials or Prohibited Waste 50kg or greater	20% Surcharge

*Penalties for **Municipal Solid Waste** loads are based on visual identification of **Recyclable Material** or **Prohibited Waste** in excess of 15% of the load.

5. Every person who disposes of **Organic Waste** at **Solid Waste Management Facilities** that contains non-organic material must pay a penalty as defined in the table below:

Penalties – Organic Waste		Per Load
a.	Organic Waste containing non-organic material 0-50kg	\$5
b.	Organic Waste containing Municipal Solid Waste , recyclables or Prohibited Waste 50kg or greater	20% Surcharge

6. Any load containing **Prohibited Waste** will be charged all costs and expenses associated with any removal and/or clean-up of the **Prohibited Waste** in addition to the tipping fees and any applicable penalty.
7. Penalties are in addition to the per tonne rate posted for the material type.
8. Where the fee is based on weight, it shall be based on the difference in weight between loaded weight and the empty weight of the vehicle.
9. All fees payable under this Bylaw shall be paid to the **Regional District** in cash, debit or credit card prior to leaving the **Solid Waste Management Facilities**.
10. Notwithstanding Section 9 of this Schedule, any person disposing of **Municipal Solid Waste** at **Solid Waste Management Facilities** on a regular basis may apply in writing to the **Regional District** for credit and if the **Treasurer** is satisfied of the credit worthiness of the person, he or she may grant credit to that person, in which case payment of fees shall be made and the credit extended on the conditions of the application;
11. In addition to Section 10 of this Schedule, any amount outstanding thirty (30) days after the invoice date shall bear interest at the rate of one and one-quarter percent (1.25%) per month.

Schedule 'B' to accompany "Regional District of Nanaimo Tipping Fee and Solid Waste Disposal Regulation Bylaw No. 1784, 2019"

Chair

Corporate Officer

Schedule 'B'

Solid waste acceptable for **Disposal**, which may require **Special Handling** includes but is not limited to:

Material	Specifications
Asbestos	<ul style="list-style-type: none"> - 24 hour notice required for appointments. - Asbestos must be placed in a 6-mil plastic bag, sealed and placed in a second 6 mil plastic bag and sealed.
Bio Solids	<ul style="list-style-type: none"> - Must be dewatered.
Bulky Waste	<ul style="list-style-type: none"> - Not permitted for Disposal at Church Road Transfer Station without approval from Superintendent.
Burnt Demolition Waste	<ul style="list-style-type: none"> - Waste extinguished for 21 days or with letter from recognized municipal, local or volunteer fire department stating material is suitably extinguished for Disposal.
Contaminated Soil	<ul style="list-style-type: none"> - Pre-approval required. - Site restrictions apply.
Creosote Wood Waste	<ul style="list-style-type: none"> - Pieces to be no longer than 8-feet. - 24 hour notice required.
Dead Animals	<ul style="list-style-type: none"> - 24 hour notice required for large animals.
Drums – Plastic	<ul style="list-style-type: none"> - Lids must be off. - 45 gallon Drums to be cut in half. - Must be crushed, shredded or similarly reduced in volume to the maximum practical extent.
Dusty Material	<ul style="list-style-type: none"> - Only acceptable if securely bagged.
Food Processing Waste	<ul style="list-style-type: none"> - Call Landfill in advance for approval.
Grit and Screenings	<ul style="list-style-type: none"> - Must be dewatered.
Invasive Plant Species	<ul style="list-style-type: none"> - Follow Disposal procedures as per BC Inter-Ministry Invasive Species Working Group.
Lead Painted Wood Waste	<ul style="list-style-type: none"> - Hazardous Waste screening and approval required for Commercial haulers and/or large quantities.
Mattress or Hide-A-Bed	<ul style="list-style-type: none"> - Surcharge in addition to tipping fee.
Netting	<ul style="list-style-type: none"> - Notify scale house, special Disposal required.
Pumpings	<ul style="list-style-type: none"> - Must be dewatered.
Steel Cables	<ul style="list-style-type: none"> - Must be 2 metre lengths or shorter.

Schedule 'C' to accompany "Regional District of Nanaimo Tipping Fee and Solid Waste Disposal Regulation Bylaw No. 1784, 2019"

Chair

Corporate Officer

Schedule 'C'

Materials denoted by an X in the table below are not accepted at the following **Solid Waste Management Facilities**:

Prohibited Waste	Regional District Landfill	Church Road Transfer Station
Biomedical Waste	X	X
Bulky Waste		X
Burnt Demolition Waste		X
Clean Soil	X	X
Concrete or asphalt pieces, or rocks greater than 0.03m or 70kg	X	X
Contaminated Soil		X
Creosote Wood Waste		X
Dead Animals		X
Gypsum	X	
Hazardous Waste	X	X
Land Clearing Waste	X	X
Liquids	X	X
Motor vehicle bodies and farm implements	X	X
Municipal Solid Waste that is on fire or smoldering	X	X
Organic Waste	X	
Recyclable Material delivered in Roll-Off Bins or volume greater than 3 cubic meters	X	X

Schedule 'D' to accompany "Regional District of Nanaimo Tipping Fee and Solid Waste Disposal Regulation Bylaw No. 1784, 2019"

Chair

Corporate Officer

Schedule 'D'

The following **Recyclable Materials** are not accepted for landfilling at a **Solid Waste Management Facilities** and includes but is not limited to:

Commercial Organic Waste

Compressed Gas Containers

Corrugated Cardboard

Garden Waste

Gypsum

Metal

Recyclable Paper

Recyclable Plastic Containers

Stewardship Materials

Wood Waste

Tires

Schedule 'E' to accompany "Regional District of Nanaimo Tipping Fee and Solid Waste Disposal Regulation Bylaw No. 1784, 2019"

Chair

Corporate Officer

Schedule 'E'

Fees and procedures for use of the **Regional District** Landfill for disposing of **Municipal Solid Waste** and **Controlled Waste** which originates from the Cowichan Valley Regional District, are:

1.	Controlled Waste originating from the Cowichan Valley Regional District	Flat rate 0-50kg	51 kg or greater
a.	Asbestos	\$30.00	\$600.00/tonne
b.	Dead Animals	\$20.00	\$300.00/tonne
c.	Invasive Plant Species	\$20.00	\$300.00/tonne

2.	Solid waste under the direct control of the Cowichan Valley Regional District*	Tonne Rate
a.	Municipal Solid Waste	Tonne rate includes a 20% Surcharge over the current Schedule 'A' rate

*Solid waste acceptance is contingent upon:

1. Prior written notice from Cowichan Valley Regional District to the **General Manager** explaining the reasons for, and the anticipated duration, of contingency landfilling;
2. The **General Manager's** acknowledgement of acceptance; and,
3. Any conditions the **General Manager** may specify with respect to the duration, requirements regarding acceptance or reporting.

REGIONAL DISTRICT OF NANAIMO

BYLAW NO. 1531

(Consolidated for convenience only to include up to 1531.08)

A BYLAW TO PROVIDE FOR THE REGULATION OF SOLID WASTE MANAGEMENT FACILITIES

WHEREAS the Regional District of Nanaimo has, pursuant to Solid Waste Disposal Local Service Establishment Bylaw No. 792, established the disposal of waste and noxious, offensive or unwholesome substances as a service;

AND WHEREAS the Regional District of Nanaimo is empowered to establish a scale of charges payable for depositing Residual Solid Waste at a Solid Waste Management Facility;

AND WHEREAS the Regional District of Nanaimo has, pursuant to *Waste Stream Management Licensing Bylaw No. 1386*, adopted to regulate the management of Municipal Solid Waste within the Regional District of Nanaimo pursuant to Section 25(3) of the *Environmental Management Act*;

AND WHEREAS the District operates Solid Waste Management Facilities for disposal of Residual Solid Waste and maintains a system to collect, remove and dispose of Residual Solid Waste and compels persons to make use of such system and the District wishes to regulate the Solid Waste Management Facilities and to establish a scale of charges payable by persons using the Solid Waste Management Facilities and compelling payment of the charges so fixed.

NOW THEREFORE, the Board of the Regional District of Nanaimo in open meeting assembled enacts as follows:

1. DEFINITIONS

In this bylaw, unless the context otherwise requires:

“Biomedical Waste” means waste as defined in the *Hazardous Waste Regulation* (British Columbia) as biomedical waste;

“Commercial Organic Waste” means compostable organic material including raw and cooked food waste from a commercial premise and includes but is not limited to:

- a) fruits and vegetables
- b) meat, fish, shellfish, poultry and bones thereof
- c) dairy products
- d) bread, pasta and baked goods

- e) tea bags, coffee grounds and filters
- f) soiled paper plates and cups
- g) soiled paper towels and napkins
- h) soiled waxed paper
- i) food soiled cardboard and paper
- j) egg shells

“Commercial Premise” means businesses and institutional facilities including educational and health care facilities described by the North American Industry Classification System, Canada 2002, amended or replaced and any successor Classification System thereunder, that generates commercial organic waste and includes but is not limited to:

- a) food wholesalers/distributors
- b) food and beverage stores
- c) hospitals
- d) nursing and other residential care facilities
- e) community food services
- f) accommodation services with food services
- g) food services and drinking places
- h) educational services with food services
- i) other facilities generating compostable organic material

“Compostable Organic Material” means vegetative matter, food processing waste, garden waste, kitchen scraps, and other organic wastes that can be composted;

“Composting Facility” means a facility that composts organic matter that may include biosolids to produce compost and holds a valid Facility License;

“Controlled Waste” means Solid Waste requiring special handling at the Solid Waste Management Facilities, and includes but is not limited to:

- a) Asbestos, dry or slurry
- b) Large dead animals

- c) Steel cables
- d) Contaminated soil
- e) Wood Waste

Special handling includes extra excavation, trenching, grinding, chipping, lining, extra cover and using extraordinary means to cover with other Solid Waste;

“Construction/Demolition Waste” means waste produced from the construction, renovation, and demolition of buildings, and other structures, but does not include waste containing or contaminated with asbestos, creosote, PCB treatments, any special waste or wood waste;

“Corrugated Cardboard” means recyclable waste from industrial, commercial or institutional sources which includes, but is not limited to containers or materials used in containers consisting of 3 or more layers of kraft paper material and having smooth exterior liners and a corrugated or rippled core, but excluding containers which are impregnated with blood, grease, oil, chemicals, food residue, wax; or have polyethylene, polystyrene, foil or other non-paper liners; or are contaminated with a material which will render the corrugated cardboard not marketable;

“Disposal Area” means those parts of a Solid Waste Management Facility currently involved in the landfilling or deposit of Solid Waste;

“Drop Off Area” means those areas of Solid Waste Management Facilities or Licensed Facilities where bins are provided for deposit of Municipal Solid Waste;

“Environmental Management Act” means the *Environmental Management Act* (British Columbia), as amended or replaced and any successor legislation and any regulations thereunder;

“Facility License” means a facility license issued by the Regional District pursuant to Regional District of Nanaimo *Waste Stream Management Licensing Regulatory Bylaw No. 1386*;

“Garden Waste” means uncontaminated vegetation removed from gardens, lawns, shrubs and trees and includes pruning from shrubs and trees to a maximum diameter of 50 mm.;

“General Manager” means a person appointed to the position of General Manager of the Regional District of Nanaimo;

“Gypsum” includes, but is not necessarily limited to new construction off-cuts or scraps and old wallboard that has been painted, covered in wallpaper, vinyl, ceramic tile, and lath and plaster and is removed during renovation and demolition, but excludes wallboard covered with asbestos;

“Hazardous Waste” means waste as defined in the *Hazardous Waste Regulation* (British Columbia) as hazardous waste except asbestos waste;

“Household Plastic Containers” means empty HDPE and LDPE plastic containers from a residential premise including milk jugs, margarine and yogurt containers and dish soap and laundry detergent bottles. Excluded are containers made of foam plastic such as Styrofoam, containers that held chlorine or ammonia-based products, motor oil containers, metal bottle lids or caps, spray nozzle heads and metal attachments;

“Drums” means plastic or metal barrels larger than 50 litres capacity made for holding liquids;

“Ignitable” means ignitable as defined in the *Hazardous Waste Regulation* (British Columbia);

“Improperly covered or secured load” means that a load that is not properly secured, either with a tarpaulin cover or tie-down apparatus to prevent any of the load escaping, or falling off of the haul vehicle;

“Land Clearing Waste” means stumps, tops, limbs and whole trees generated from the clearing of land and the small scale harvesting of merchantable timber but does not include garden waste;

“Licensed Facility” means a facility holding a Facility License issued by the Regional District;

“Medical Facility Waste” means municipal solid waste originating from a hospital or health care facility that does not contain biomedical waste and does not require special handling;

“Metal” means recyclable ferrous and non-ferrous metallic materials which include, but are not limited to: sheet metal, siding, roofing, rebar, flashings, pipes, window frames, doors, furnaces, duct work, wire, cable, bathtubs, fencing, bicycle frames, automotive parts, machinery, appliances, garbage cans, metal furniture, tire rims and metal cans. It does not include metal that is incorporated into a product or packaging, such as a couch, that does not compose more than 50% of the product weight and that cannot be readily separated from the non-metallic components;

“Municipal Solid Waste” means refuse that originates from residential, commercial or institutional sources;

“Organic Waste” means compostable organic material including raw and cooked food waste from a commercial and residential premise and includes but is not limited to:

- a) fruits and vegetables
- b) meat, fish, shellfish, poultry and bones thereof
- c) dairy products
- d) bread, pasta and baked goods
- e) tea bags, coffee grounds and filters

- f) soiled paper plates and cups
- g) soiled paper towels and napkins
- h) soiled waxed paper
- i) food soiled cardboard and paper
- j) egg shells

“Prohibited Waste” means a waste prohibited from disposal under Schedule ‘C’ hereto;

“Radioactive Waste” means a nuclear substance as defined in the *Nuclear Safety and Control Act* (Canada) in sufficient quantity or concentration to require a license for possession or use under that Act and regulations made under that Act;

“Reactive Waste” means waste which:

- (a) is explosive, oxidizing, or so unstable that it readily undergoes violent change in the presence of air or water;
- (b) generates toxic gases, vapours or fumes by itself or when mixed with water; or
- (c) polymerizes in whole or in part by chemical action and causes damage by generating heat or increasing in volume;

as defined in the Special Waste Regulations of the *Waste Management Act* (British Columbia);

“Recyclable Paper” means recyclable fibers, including: newspapers and inserts, magazines, telephone directories, catalogues, all office papers, envelopes, boxboard, paper bags and junk mail. It does not include: paper contaminated with food or grease, paper napkins, paper towels, tissue paper, composite paper products (e.g. paper adhered to plastic and/or metal such as tetrapaks), gable-top containers (e.g. milk cartons), waxed cardboard, wax paper, photographs and carbon paper;

“Regional District” means the Regional District of Nanaimo;

“Residential Premise” means a single family dwelling unit or a multi-family dwelling unit including townhomes, apartments and mobile homes in mobile home parks;

“Residual Solid Waste” means that portion of Municipal Solid Waste for which no management option exists except disposal at the Solid Waste Management Facilities but does not include Prohibited Waste;

“Roll-off Bin” means an interchangeable container that can be separated from a hauling truck through the use of a mechanism integrated into the frame of the hauling truck;

“Solid Waste Management Facilities” means the Regional Landfill and Church Road Transfer Station, and other facilities the Regional District may establish from time to time;

“Stewardship Materials” means any waste or recyclable materials included in an approved stewardship plan as defined in the Recycling Regulation of the *Environmental Management Act* (British Columbia);

“Tires” means all rubber tires;

“Wood Waste” means wood waste from construction and/or demolition that has been separated from other construction/demolition waste. The wood may be painted, but cannot have tile, gypsum, glue, carpet, dirt or soil or other non-wood materials attached.

2. CONDITIONS OF USE

- 2.1 No person shall deposit Municipal Solid Waste at a Solid Waste Management Facility, except in accordance with this bylaw.
- 2.2 No person shall deposit a Prohibited Waste at a Solid Waste Management Facility.
- 2.3 At least 24 hours notice must be given to the General Manager prior to disposal of Controlled Waste.
- 2.4 Loads of Gypsum delivered in roll-off bins will not be accepted at the Church Road Transfer Station.
- 2.5 Loads of garden waste delivered in roll-off bins will not be accepted at the Regional Landfill or the Church Road Transfer Station.
- 2.6 Loads of wood waste delivered in roll-off bins will not be accepted at the Regional Landfill or the Church Road Transfer Station.
- 2.7 Loads of corrugated cardboard delivered in roll-off bins will not be accepted at the Regional Landfill or the Church Road Transfer Station.
- 2.8 No person shall salvage or remove material deposited at the Solid Waste Management Facilities.
- 2.9 No person shall loiter at the Solid Waste Management Facilities.
- 2.10 No person shall leave their vehicle unattended at the Solid Waste Management Facilities.
- 2.11 Any person entering the Solid Waste Management Facilities shall proceed directly to the weigh scale and then leave the Solid Waste Management Facilities without delay after unloading.
- 2.12 Persons entering the Solid Waste Management Facilities do so at their own risk. The Regional District accepts no liability whatsoever for damage and/or injury to persons or property at the Solid Waste Management Facilities.

- 2.13 Children under 13 years of age, and pets shall not be permitted at the Solid Waste Management Facilities except inside a vehicle.
- 2.14 No person shall deposit Municipal Solid Waste that does not originate from within the Regional District boundaries at a Solid Waste Management Facility.
- 2.15 Despite section 2.14, the Board may authorize deposit of Municipal Solid Waste from another regional district upon request from a regional district Board of Directors.

3. CHARGES

- 3.1 Every person depositing municipal solid waste at the Solid Waste Management Facilities shall pay to the District the applicable charges set out in Schedule 'A' hereto.
- 3.2 Notwithstanding 3.1, customer charge accounts may be established in accordance with Policies and Procedures in Schedule 'B'.

4. VIOLATIONS AND PENALTIES

- 4.1 No person shall do any act or suffer or permit any act or thing to be done in contravention of this bylaw.
- 4.2 Every person who contravenes this bylaw, by doing any act which the bylaw forbids, or omitting to do any act which the bylaw requires is guilty of an offence and is liable, on summary conviction, to a fine of not less than TWO HUNDRED DOLLARS (\$200.00) and not more than TEN THOUSAND DOLLARS (\$10,000.00). A separate offence shall be deemed to be committed upon each day during and in which the contravention occurs or continues.
- 4.3 The General Manager may prohibit a person who contravenes this bylaw from depositing Municipal Solid Waste at the Solid Waste Management Facilities.
- 4.4 Any waste received in contravention of the bylaw or instructions provided by the RDN at the solid waste facilities may be subject to a cost recovery fee for contamination cleanup or proper disposal.

5. REPEAL

- 5.1 "Regional District of Nanaimo Solid Waste Management Bylaw No. 1428, 2005" is hereby repealed.

6. TITLE

- 6.1 This bylaw may be cited as “Regional District of Nanaimo Solid Waste Management Regulation Bylaw No. 1531, 2007”.

Introduced and read three times this 27th day of November, 2007.

Adopted this 27th day of November, 2007.

CHAIRPERSON

SR. MGR., CORPORATE ADMINISTRATION

Chairperson

Sr. Mgr., Corporate Administration

Schedule 'A'

Charges and Procedures for use of Solid Waste Management Facilities effective April 1, 2016.

1.	Solid Waste, excluding Controlled Waste	Flat Rate	51 kg or greater
a.	Municipal solid waste, construction/demolition waste, roofing waste (asphalt/tar/gravel), medical facility waste, or material recovery facility waste	\$6.00/0-50kg	\$125.00/tonne
b.	Municipal solid waste (containing recyclables) with offence	\$6.00/0-50kg	\$250.00/tonne
c.	Construction/Demolition waste (containing recyclables) with offence	\$6.00/0-50kg	\$360.00
d.	Weighing service	\$20.00 flat rate	
e.	Surcharge for improperly covered or secured loads	\$20.00 flat rate	
f.	Surcharge for mattresses and hide-a-beds	\$10.00 flat rate	

2.	Recyclables	Flat Rate	51 kg or greater
a.	Organic waste	\$6.00/0-50kg	\$110.00/tonne
b.	Organic waste (containing mixed solid waste or recyclables) with offence	\$6.00/0-50kg	\$250.00/tonne
c.	Garden waste	\$6.00/0-100kg	\$55.00/tonne
d.	Wood waste including wood roofing	\$6.00/0-50kg	\$250.00/tonne
e.	Gypsum (Church Road Transfer Station only)	\$6.00/0-50kg	\$250.00/tonne
f.	Metal recycling, metal appliances with ODS (ozone depleting substance)	\$6.00/0-500kg	\$55.00/tonne
g.	Corrugated cardboard	\$6.00/0-50kg	\$55.00/tonne
h.	Miscellaneous recyclables including: household plastics, metal food and beverage containers, vehicle batteries and oil filters	\$6.00 flat rate	
i.	Surcharge for ODS containing appliances	\$15.00 flat rate	

3.	Controlled Waste	Flat Rate	51 kg or greater
a.	Contaminated soil, grit and screenings and bio-solids	\$6.00/0-50 kg	\$125.00/tonne
b.	Controlled waste (misc.) including large dead animals	\$6.00/0-50 kg	\$250.00/tonne
c.	Food processing waste and treatment works		\$250.00/tonne
d.	Steel cable		\$500.00/tonne
e.	Asbestos waste	\$30.00/0-50 kg	\$500.00/tonne

4. Any load containing Prohibited Waste will be charged all costs associated with any special handling or removal of the Prohibited Waste in addition to the volume rates above.
5. Where the charge is based on weight, it shall be based on the difference in weight between loaded weight and the empty weight of the vehicle.
6. In the event that the scales provided are not operational, weight shall be estimated by the Scale Clerk employed by the Regional District of Nanaimo.
7. All charges payable under this bylaw shall be paid prior to leaving the site.
8. Surcharges are in addition to the per tonne rate posted for the material type.

Chairperson

Sr. Mgr., Corporate Administration

Schedule 'B'

POLICIES AND PROCEDURES

Customer Charge Accounts and Collections

PURPOSE: To establish guidelines for the granting of customer credit and for the collection of customer accounts.

POLICY: Customer accounts will be established only in circumstances where the customer will be a regular user of Regional District services. All other requests for products and or services must be prepaid.

PROCEDURES:

- (1) Any individual or organization wishing to establish a charge account with the Regional District of Nanaimo shall complete an **Application for Credit** as provided by the Regional District.
- (2) Exemptions from (1) above will be limited to:
 - Province of British Columbia, departments or agencies clearly identified.
 - Government of Canada, departments or agencies clearly identified.
 - Other Municipalities, Regional Districts, Towns and Villages.
- (3) Completed **Applications for Credit** will be forwarded to the originating department for recommendation and then to the accounts receivable department for verification of references and credit history.
- (4) Verified **Applications** may be approved by either the General Manager, Finance & Information Services or Deputy Treasurer. The originating department and the customer will be advised of the approval date, and charges may be accepted immediately after the approval date.
- (5) Customer invoices will be generated monthly, and will be payable upon receipt by the customer.
- (6) Customers with accounts in arrears after 30 days will be contacted requesting payment within seven working days. Failure to remit within seven days will result in a rescinding of credit and the account will be C.O.D. only.
- (7) Upon full payment of all outstanding balances a customer account may be reinstated at the discretion of the General Manager, Finance & Information Services or Deputy Treasurer.
- (8) Any customer account falling 30 days past due a second time and which is not fully paid immediately (7 working days) upon request, will be placed on C.O. D. permanently.
- (9) Any variations or exceptions to the above noted policies and procedures must have the written approval of the General Manager, Finance & Information Services or Deputy Treasurer.
- (10) At the discretion of the General Manager, Finance & Information Services, customers with accounts in arrears after 60 days will be contacted and advised that they will not deposit any further solid waste on or at the Solid Waste Management Facilities until the charge and interest owing thereon is paid in full.

Chairperson

Sr. Mgr., Corporate Administration

Schedule 'C'

"Prohibited Waste"

The following gaseous liquids and municipal solid wastes are not acceptable for disposal at a Solid Waste Management Facility and include, but are not limited to:

1. At the Regional Landfill:
 - (i) Biomedical Waste;
 - (ii) Commercial Organic Waste;
 - (iii) Concrete or asphalt pieces, or rocks greater than 0.03m³ or 70 kg;
 - (iv) Corrugated Cardboard;
 - (v) Drums;
 - (vi) Garden Waste;
 - (vii) Gypsum;
 - (viii) Hazardous Waste;
 - (ix) Household Plastic Containers;
 - (x) Ignitable Wastes;
 - (xi) Land Clearing Waste;
 - (xii) Liquids, except as permitted herein;
 - (xiii) Metal;
 - (xiv) Motor vehicle bodies and farm implements;
 - (xv) Municipal Solid Waste that is on fire or smouldering;
 - (xvi) Radioactive Waste;
 - (xvii) Reactive Wastes;
 - (xviii) Recyclable Paper;
 - (xix) Stewardship Materials:
 - (xx) Special waste, as defined in the *Special Waste Regulation* (British Columbia) except asbestos ;
 - (xxi) Tires;
 - (xxii) Wood Waste

2. At Church Road Transfer Station:
- (i) Biomedical Waste;
 - (ii) Bulk loads of Demolition Waste 5m³ or greater
 - (iii) Burnt Demolition Waste;
 - (iv) Commercial Organic Waste;
 - (v) Concrete or asphalt pieces, or rocks greater than 0.03m³ or 70 kg;
 - (vi) Controlled Waste; except as animal carcasses by a government agency with written authorization from the General Manager;
 - (vii) Corrugated Cardboard;
 - (vi) Garden Waste;
 - (vii) Gypsum;
 - (viii) Hazardous Waste;
 - (ix) Household Plastic Containers;
 - (x) Ignitable Wastes;
 - (xi) Land Clearing Waste;
 - (xii) Liquids, except as permitted herein;
 - (xiii) Metal;
 - (xiv) Motor vehicle bodies and farm implements;
 - (xv) Municipal Solid Waste that is on fire or smouldering;
 - (xvi) Radioactive Waste;
 - (xvii) Reactive Wastes;
 - (xviii) Recyclable Paper;
 - (xix) Special waste, as defined in the *Special Waste Regulation* (British Columbia) except asbestos;
 - (xx) Stewardship Materials;
 - (xxi) Tires;
 - (xxii) Wood Waste.

Chairperson

Sr. Mgr., Corporate Administration

Schedule 'D'

Charges and procedures for use of Regional Landfill for disposing of Controlled Waste and Municipal Solid Waste which originates from the Cowichan Valley Regional District and the Comox Valley Regional District, effective July 1, 2017, are:

1.	Controlled waste originating Cowichan Valley RD	Flat rate	51 kg or greater
a.	Waste asbestos	\$30.00/0-50 kg	\$600.00/tonne
b.	Large dead animals	\$20.00/0-50 kg	\$300.00/tonne
c.	Invasive plant species	\$20.00/0-50 kg	\$300.00/tonne

2.	Solid waste under the direct control of the Cowichan Valley Regional District *	Tonne Rate
a.	Municipal solid waste	Tonne rate includes a 20% premium over the current Schedule 'A' rates

Solid waste acceptance is contingent upon:

- 1) Prior written notice from Cowichan Valley Regional District to the General Manager explaining the reasons for, and the anticipated duration, of contingency landfilling;
- 2) The General Manager's acknowledgement of acceptance; and,
- 3) Any conditions the General Manager may specify with respect to the duration, requirements regarding acceptance or reporting.

3.	Controlled waste originating Comox Valley RD**	Flat rate	51 kg or greater
a.	Waste asbestos	\$30.00/0-50 kg	\$600.00/tonne

**Asbestos waste acceptance is approved until December 31, 2017 with provision to extend the agreement for one year.

Various Regional District Solid Waste Tipping Fees, 2018

	Metro Vancouver Tipping Fee		Comox Valley Tipping Fee		Cowichan Valley Tipping Fee		Mount Waddington Tipping Fee		CRD Tipping Fee		District of Squamish Tipping Fee		qathet RD Tipping Fee		SCRD Tipping Fee		ACRD Tipping Fee		
MSW	Municipal Only	\$108/tonne	\$130/tonne		\$140/tonne		\$125/tonne		\$110/tonne ³		\$150/tonne		\$220/tonne		\$150/tonne		\$95.00/tonne		
	0 to .99 tonnes	\$142/tonne																	
	1.0 to 8.99 tonnes	\$120/tonne																	
	9.0 tonnes or more	\$90/tonne																	
Minimum Tipping Fee for MSW	During Peak Hours	\$20/Load	0-100 kg	\$6	0-25 kg	\$5/load	\$3/garbage bag		\$10		\$5	\$5	\$5	\$5	\$5	\$8 or \$2.00/bag			
	Outside Peak Hours	\$10/Load																	
Special Handling/ Controlled Waste	\$250/tonne, \$50 minimum		0-100 kg	\$15	N/A		\$250/tonne		Minimum	\$20	N/A	N/A	N/A	N/A	N/A	\$120/tonne			
			Per Load	\$180/tonne															
Grits/Screenings/Septage/Sludge	N/A				N/A		\$72/tonne										\$120/tonne		
Mattresses	\$15/unit		N/A		\$10/unit		\$11/unit		Bin Fee	\$10	\$20/unit	N/A	Dry	\$10/unit	N/A				
					Contaminated \$140/tonne ¹								\$110/tonne	Wet					\$15/unit
														5 or more					\$15/unit
													Crib Mattress	\$5/unit					
Asbestos	N/A		0-100 kg	\$20	Do Not Accept		Securely Packaged	\$125/tonne ²	Minimum	\$20	\$250/tonne	\$650/tonne	\$275/tonne	\$250/tonne					
			In Region	\$250/tonne			Non-Compliance		\$157/tonne										
			Out of Region	\$500/tonne															
Gypsum	New - less than 1/2 tonne	\$150/tonne	0-100kg	\$20	\$200/tonne		N/A		Uncontaminated Prohibited		\$290/tonne	\$220/tonne	\$265/tonne	\$120/tonne					
	Used - less than 1/2 tonne	\$200/tonne	Per Load	\$225/tonne															
Contaminated Soil	N/A		N/A		Do Not Accept		In Region	\$14/tonne	\$157/tonne		N/A	N/A	N/A	N/A	N/A	\$70/tonne plus treatment cost			
							Out of Region	\$20/tonne											
Commercial Recycling	N/A		0-100 kg	\$6	N/A		N/A		\$26 entry fee		N/A	N/A	N/A	N/A	N/A	N/A			
			Per Load	\$60/tonne															
Wood Waste	\$95/tonne		0-100 kg	\$6	Dirty	\$140/tonne	\$28/tonne		Bin Fee	\$10	Dirty	\$85/tonne	Dirty	\$250/tonne	Clean	\$170/tonne	N/A		
			Per Load	\$120/tonne	Clean	\$95/tonne			Per Load	\$110/tonne	Clean	\$65/tonne			Dirty	\$265/tonne			

¹Plus \$10 surcharge per item

²Plus handling costs

³\$10 Bin Fee if dropped off in the Public Drop-Off Area

⁴Some Controlled Waste Materials has different fees

TO: Solid Waste Management Select Committee **MEETING:** March 5, 2019

FROM: Meghan Ebueza
Solid Waste Planner **FILE:** 5360-01

SUBJECT: Association of Vancouver Island and Coastal Communities Special Committee on Solid Waste Update

RECOMMENDATION

1. That the Solid Waste Management Select Committee receives this report for information.

SUMMARY

This report provides an overview of the Association of Vancouver Island and Coastal Communities (AVICC) Special Committee on Solid Waste of which the Regional District of Nanaimo (RDN) is a member.

BACKGROUND

The AVICC was established in 1950 and includes membership of 53 local governments representing Vancouver Island, the Sunshine Coast, Powell River (qathet), the North Coast and the Central Coast. The primary purpose of AVICC is to represent and advocate for the various municipalities, regional districts and other local governments within this area. AVICC hosted a 2014 workshop that identified uncertainties facing regional districts related to Solid Waste Management:

- Inability to locate disposal facilities and control waste flows;
- Funding models dependent upon maintaining waste streams;
- Successful diversion strategies impacting disposal volumes;
- Transportation and disposal security issues;
- New technologies available with economies to scale; and
- Significant regulatory and long-term liability costs.

Based on the workshop, the Special Committee on Solid Waste was established, and endorsed by all AVICC members at the 2015 Convention. Since then its term has been extended each year and endorsed by the full AVICC membership at the annual Conventions. Nine regional districts within the AVICC region are committed participants and work together to address common issues, challenges and opportunities surrounding solid waste. Committee members include elected officials representing each regional district, with program implementation by staff from the participating Regional Districts.

AVICC Special Committee on Solid Waste - Vision, Goals and Action Plan

Vision:

That local governments on Vancouver Island, qathet and the Sunshine Coast are working together to address the opportunities and challenges of managing solid waste and our residents are aware of and support the need to reduce and manage our waste in a sustainable manner.

Goals:

1. Ensure information is shared between AVICC local governments to encourage best practices in solid waste management and consistent messaging to our residents
2. Collect and maintain appropriate and consistent data associated with solid waste management within the AVICC.
3. Support an informed and unified voice to assist efforts with the Province, NGOs and other partners in developing effective waste management solutions and policies.

Action Plan

Action 1: Partnership – Develop a vision and goals including a communication strategy and a unified education program.

Local governments on Vancouver Island, Powell River and the Sunshine Coast are working together to address the opportunities and challenges of managing solid waste and our residents are aware of and support the need to reduce and manage our waste in a sustainable manner.

Deliverables:

- Spring 2017 Illegal Dumping Video and Campaign launch - Completed
 - Reworked Illegal Dumping video from the Comox Valley Regional District
 - Provided Regional District branded videos to all participating AVICC Solid Waste Committee members
 - Coordinated the launch of Illegal Dumping campaign across all member Regional Districts
- Spring 2019 Recycle Right at Home Videos and Campaign launch – In Progress

Action 2: Partnership – Technical Working Group

The AVICC Special Committee on Solid Waste will continue to meet regularly to identify one solid waste challenge or opportunity to investigate at each meeting.

Deliverables:

- Tetra Tech retained by AVICC to review, update and maintain 2015 baseline report with a focus on understanding the differences between the various Regional District data outcomes and establishing consistency and confidence with the data tables.
 - 2017 Tetra Tech worked with AVICC Regional District staff and Ministry staff to update 2016 data – Completed
 - 2019 Tetra Tech has been retained once again to update data based on 2018 numbers – In Progress

Action 3: Advocacy

Engage the British Columbia Ministry of Environment and industry groups to review and expand waste reduction and diversion policies.

Deliverables:

- Meeting held at 2016 UBCM Convention with Minister of Environment, Mary Polak, and with the Assistant Deputy Minister, Mark Zacharias. Ministry was interested in the work of the Special Committee and was supportive. Ministry staff committed to participate in AVICC meetings to answer questions and provide a provincial perspective.
- Meeting held at September 2018 UBCM Convention with Minister Heyman, Ministry of Environment and Climate Change Strategy
- Meeting held November 2018 with Ministry of Environment Staff including Assistant Deputy Minister David Morel, Environmental Protection Division; Executive Director Kris Ord, Environmental Standards; and Executive Director Tessa Graham, Regional Operations Branch.

Action 4: Long-term Disposal

Conduct an assessment to forecast future solid waste disposal demand of AVICC member populations in twenty, forty and sixty years' time.

Deliverables:

- Administration Group reviewed methodologies for forecasting future growth with three scenarios with varying assumptions around factors including recycling, diversion, construction waste and organic material. - Completed
- Conduct an assessment to forecast future solid waste disposal demand of AVICC populations in 20, 40, and 60 years' time. – In Progress

Action 5: Regulations and Enforcement

Ensure that, where practicable, disposal bans, and bylaws are consistent across regions to reduce leakage across borders.

Deliverables:

- Preliminary information gathered on disposal bans, bylaws and illegal dumping and reported back to the Special Committee. - Completed
- Acknowledge and develop strategies to mitigate potential increases to illegal dumping from disposal bans and bylaws regulations. – In Progress

AVICC Special Committee on Solid Waste - Future Solid Waste Priorities

The Technical Working group has identified 3 key priorities to continue to work on in 2019 which include:

1. Organics Management
 - a. Shared Service and Cooperative Efforts
 - b. Aligned Tipping Fee Rates and Bylaws
 - c. Advocacy
2. Long Term Disposal Options
 - a. Shared Service

- b. Cooperative Efforts
- c. Advocacy
- 3. Single-Use Plastics
 - a. Advocacy
 - b. Alignment

The Technical working group will provide these priorities to the AVICC Special Committee in March in anticipation of a presentation at the AVICC convention in April 2019.

The AVICC Technical and Communications working groups will continue to work on a number of ongoing operational tasks including communication and outreach, solid waste comparative data, mandatory source separation, disposal bans, varying tipping fees and EPR.

ALTERNATIVES

1. That the Solid Waste Management Select Committee receives this report for information.
2. Provide alternate direction.

FINANCIAL IMPLICATIONS

In 2017, the RDN contributed \$2,942 (rounded to the nearest dollar) to the AVICC Special Committee budget of \$20,000 to provide funding of research, technical expertise and other shared costs. The fair cost allocation formula outlines that there be a contribution of \$500 from each regional district with the remainder of costs for the first \$20,000 to be based on total waste disposed. Regional member costs are outlined in the table below:

AVICC Member	Member flat participation contribution	Total Waste Disposed (tonnes)	% AVICC Total Waste	Participant contribution based on % of waste disposed	Total Member contribution based on \$20,000.00 budget
Alberni-Clayoquot	\$500.00	21,044	6.40%	\$992	\$1,492
Capital	\$500.00	139,412	42.41%	\$6,573	\$7,073
Comox Valley	\$500.00	39,427	11.99%	\$1,859	\$2,359
Cowichan Valley	\$500.00	23,677	7.20%	\$1,116	\$1,616
Mount Waddington	\$500.00	6,172	1.88%	\$291	\$791
Nanaimo RD	\$500.00	51,782	15.75%	\$2,442	\$2,942
Powell River RD	\$500.00	9,242	2.81%	\$436	\$936
Strathcona	\$500.00	27,723	8.43%	\$1,307	\$1,807
Sunshine Coast	\$500.00	10,270	3.12%	\$484	\$984
Total	\$4,500.00	328,749	100%	\$15,500	\$20,000

The AVICC Special Committee is currently reviewing the 2019 Budget but no significant variation is anticipated.

STRATEGIC PLAN IMPLICATIONS

Focus On Relationships- We Look For Opportunities To Partner With Other Branches Of Government/Community Groups To Advance Our Region

The RDN partnership with AVICC provides an opportunity to actively engage with other regional districts to advocate for common solid waste management concerns; align solid waste management regulations, bylaws, and tipping fees; and identify shared service and cooperative effort opportunities.



Meghan Ebueza
mebueza@rdn.bc.ca
February 14, 2019

Reviewed by:

- L.Gardner, Manager, Solid Waste Services
- R. Alexander, General Manager, Regional & Community Utilities
- P. Carlyle, Chief Administrative Officer

TO: Solid Waste Management Select Committee **MEETING:** March 5, 2019

FROM: Meghan Ebueza
Solid Waste Planner **FILE:** 5360-01

SUBJECT: Out of Region Waste Disposal Request from qathet Regional District

RECOMMENDATION

The Board approve the request from the qathet Regional District to accept municipal solid waste from residents of Lasqueti Island at Regional District of Nanaimo Solid Waste Management Facilities with the following conditions:

- (1) municipal solid waste from Lasqueti Island will be charged the prevailing Regional District of Nanaimo municipal solid waste tipping fee rate plus a 20% premium;
- (2) acceptance will be approved until March 1, 2026; and
- (3) the Board direct staff to amend *Regional District of Nanaimo Solid Waste Management Bylaw No. 1531, 2007*, Schedule 'D' to include these conditions.

SUMMARY

On January 9, 2019, Chair Patrick Brabazon of the qathet Regional District (qRD) wrote to the Regional District of Nanaimo (RDN) requesting disposal of out-of-region residual waste from Lasqueti Island at the RDN Church Road Transfer Station (approximately 100 tonnes per year).

Lasqueti Island has a population of approximately 400 people year round with the population doubling in the summer. Municipal solid waste is currently disposed of at the small on-island landfill which under the Lasqueti Island Solid Waste Management Sub-Plan is slated to close in 2020. Consequently, Lasqueti residents will need to find an alternative waste disposal option following the landfill closure.

Lasqueti Island is geographically a challenge for the qRD to provide services as its logistical connection to services and amenities lies within the RDN at French Creek in Electoral Area G where passenger ferry and barge landing operations and facilities exist. Waste disposal at RDN Facilities is the most practical option for Lasqueti Island residents.

RDN Bylaw No. 1531 prohibits out of region waste disposal at RDN Solid Waste Management Facilities unless authorized by the RDN Board. Staff recommend approving the request in consideration of:

- the minor amount of waste generated on Lasqueti Island;
- the logistical challenges and lack of alternatives for managing the waste; and

- RDN tipping fee revenues cover disposal costs, and therefore, would not result in an additional burden placed on RDN taxpayers.

BACKGROUND

Lasqueti Island Solid Waste Management Sub-Plan

qRD recently updated its *Solid Waste Management and Resource Recovery Plan* inclusive of the Lasqueti Island Solid Waste Management Sub-Plan. The qRD Plan was approved by Minister of Environment in September 2018. The Lasqueti Island Landfill Closure Plan will be completed and submitted to the Minister of Environment in 2019 with physical closure to be completed in 2020.

The population of Lasqueti Island is estimated to be 399 full time residents (2016 census), with the population doubling in the summer. The annual per capita disposal rate is estimated to be 125 kg per person, which in comparison is less than half the RDN per capita disposal rate. The low waste generation rate is believed to be attributed to the following community characteristics:

- Nearly all kitchen waste is composted;
- Reuse and salvage of materials are widely practiced;
- The Island has passenger only ferry service;
- There are minimal opportunities on the island to practice consumerism;
- Most of the community places a high value on low impact living; and
- Many residents report taking residual waste off island rather than using the Lasqueti Landfill.

The 2018-2019 Lasqueti Island Solid Waste Management Sub-Plan schedule identifies the upgrade and operational improvements to the Lasqueti Island recycling centre to facilitate all possible recycling opportunities. This will enable the proposed municipal waste from Lasqueti Island to go to the RDN Church Road Transfer Station to be free of divertible materials inclusive of organics and recyclables. qRD's operational plan for transport of waste from Lasqueti to the Church Road Transfer Station has not yet been finalized. It is estimated that in total the municipal solid waste received will be approximately 100 tonnes annually.

During the Sub-Plan development Lasqueti residents reported that currently bags of residual waste are taken off island and disposed of within the RDN. The qRD has looked into another transportation and disposal option including a barging firm from Vancouver which passes by and services the island occasionally. The service is not frequent, not on any schedule and is not considered a reliable option for waste disposal.

Accepting Out of District Residual Waste

Conditions of use of the RDN Regional Landfill and Church Road Transfer Station are regulated by the *Regional District of Nanaimo Solid Waste Management Regulation Bylaw No. 1531, 2007*. It enacts:

2.14 No person shall deposit Municipal Solid Waste that does not originate from within the Regional District boundaries at a Solid Waste Management Facility.

2.15 Despite section 2.14, the Board may authorize deposit of Municipal Solid Waste from another regional district upon request from a regional district Board of Directors.

The RDN Regional Landfill, which receives approximately 57,000 tonnes of waste per year, is expected to continue until approximately 2040. At an average annual rate of 100 tonnes of municipal solid waste received from Lasqueti Island, the site life would only be shortened by approximately two weeks. Accepting municipal solid waste from Lasqueti Island would help the RDN to track out of region waste and provide more accurate waste disposal numbers to both the RDN and qRD. Setting an expiry date of March 1, 2026 allows for both the qRD and RDN to review the annual municipal solid waste tonnage received at RDN Solid Waste Management Facilities from Lasqueti Island over a five year period and is an adequate period for qRD to set up a service. Any continuation beyond this time would be subject to qRD submitting a request and consideration by the RDN Board.

The staff recommendation is for a 20% surcharge over prevailing RDN municipal solid waste tipping fee to align with the precedent that has been established for taking other out-of region waste.

Should the Board approve the qRD request, *Regional District of Nanaimo Solid Waste Management Bylaw 1531, 2007, Schedule 'D'* will require an amendment to include these conditions.

ALTERNATIVES

1. The Board approve the request from the qathet Regional District to accept municipal solid waste from residents of Lasqueti Island at Regional District of Nanaimo Solid Waste Management Facilities with the following conditions:
 - (1) municipal solid waste from Lasqueti Island will be charged the prevailing RDN municipal solid waste tipping fee rate plus a 20% premium;
 - (2) acceptance will be approved until March 1st, 2026; and
 - (3) the Board direct staff to amend *Regional District of Nanaimo Solid Waste Management Bylaw No. 1531, 2007, Schedule 'D'* to include these conditions.
2. The Board does not approve the request from the qathet Regional District to accept municipal solid waste from residents of Lasqueti Island at Regional District of Nanaimo Solid Waste Management Facilities.
3. The Board provide alternate direction to staff.

FINANCIAL IMPLICATIONS

Tipping fees revenue fund both the cost of Solid Waste Management Facilities operations and maintenance, and Solid Waste programs in the RDN. The current municipal solid waste tipping fee rate recovers the cost of municipal solid waste disposal even for small loads. The RDN does have an agreement with the Cowichan Valley Regional District (CVRD) for accepting out of region municipal solid waste as an emergency contingency plan which sets the tipping fee rates at a 20% premium over the prevailing municipal solid waste tipping fee rate. It is recommended that municipal solid waste received from qRD Lasqueti Island be accepted and charged a 20% premium over the prevailing municipal solid waste tipping fee rate, similar to the CVRD, under a five year agreement start date pending the Lasqueti Island Landfill closure.

Based on the current municipal solid waste tipping fee rate plus a 20% premium, revenue that would be generated by accepting municipal solid waste from Lasqueti Island would be approximately \$15,000 per year.

STRATEGIC PLAN IMPLICATIONS

Focus On Relationships- We Look For Opportunities To Partner With Other Branches Of Government/Community Groups To Advance Our Region

The approval of this request would be collaborative approach between qRD and the RDN to manage residual solid waste from a geographic area hard to access by the qRD. This collaborative approach is in keeping with the Association of Vancouver Island and Coastal communities (AVICC) goal of working towards a cooperative long-term sustainable strategy for solid waste management on Vancouver Island.



Meghan Ebueza
mebueza@rdn.bc.ca
February 15, 2019

Reviewed by:

- L. Gardner, Manager, Solid Waste Services
- R. Alexander, General Manager, RCU
- P. Carlyle, Chief Administrative Officer

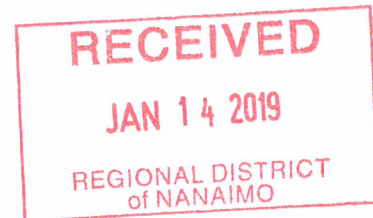
Attachment

1. Out of District Residual Waste Disposal Request Letter from qathet Regional District



January 9, 2019

Ian Thorpe, Board Chair
Regional District of Nanaimo
6300 Hammond Bay Road
Nanaimo, BC V9T 6N2



Dear Chair Thorpe,

Re: OUT OF DISTRICT RESIDUAL WASTE DISPOSAL REQUEST

qathet Regional District (qRD) has recently updated its *Solid Waste Management and Resource Recovery Plan* inclusive of the Electoral Area 'E' (Lasqueti Sub Plan). The qRD Regional Board adopted the Plan on December 19, 2017 and the *Ministry of Environment and Climate Change Strategy* approved the Plan acknowledged by letter September 12, 2018. As well as other initiatives identified in the 2018-2019 Lasqueti Island Sub Plan schedule, the Plan specifies the following:

- Seek approval for disposal at out-of-district landfill,
- prepare landfill closure plan, and
- begin export of residual waste.

The Sub Plan also identifies the upgrade and operational improvements to the Lasqueti Island recycling centre to facilitate all possible recycling opportunities. This will enable the proposed residual waste to go to the Regional District of Nanaimo's (RDN) Regional Landfill, through this request, to be free of divertible materials inclusive of organics and recyclables. It is estimated that in total the residual waste will be approximately 100 tonnes annually. During the Sub Plan development Lasqueti residents reported that currently bags of residual waste are taken of island and disposed of within the Regional District of Nanaimo. This proposed agreement could capture that leakage and formalize the residual disposal flow allowing for an improved understanding of the waste to landfill per capita.



Area E Lasqueti Island, is geographically a challenge for the qRD as its logistical connection to services and amenities lies within the RDN at French Creek where passenger ferry and barge landing operations and facilities exist. It is interesting to note that the majority of waste generated on Lasqueti Island is a result of purchases made within the RDN.

Please accept this letter as a formal request to dispose of out of district residual waste at the RDN waste transfer facility located on Church Road and to receive the following information:

- Cost per tonne of residual waste disposal (tipping fee)
- List of banned materials
- A date that the RDN could implement receiving this out of district residual waste at Church Road
- Any related annual incremental increases over the next 10 years

Sincerely,

A handwritten signature in blue ink, appearing to read "Patrick Brabazon".

Patrick Brabazon, Chair

cc: Al Radke, CAO
Mike Wall, Manager of Strategic Initiatives and Asset Management
Larry Gardner, Manager of Solid Waste Services