Regional District of Central Kootenay

JOINT RESOURCE RECOVERY COMMITTEE

Open Meeting Agenda

Date: September 22, 2021

Time: 1:00 pm

Location: RDCK Remote Meeting

The meeting is held remotely due to COVID-19

Directors will have the opportunity to participate in the meeting electronically. Proceedings are open to the public.

Pages

1. CALL TO ORDER

2. TRADITIONAL LANDS ACKNOWLEDGEMENT STATEMENT

We acknowledge and respect the indigenous peoples within whose traditional lands we are meeting today.

3. ADOPTION OF THE AGENDA

RECOMMENDATION:

The Agenda for the September 22, 2021 Joint Resource Recovery meeting be adopted as circulated.

4. RECEIPT OF MINUTES 4 - 12

The August 18, 2021 Joint Resource Recovery Committee Minutes, have been received.

5. PROJECT DEFERRALS - CENTRAL COMPOSTING FACILITY & ORGANICS TRANSFER UPGRADES 13 - 19

The September 9, 2021 Committee Report from Alayne Hamilton, HB Tailings Facility Technologist, providing an update on the planned organics transfer upgrades at Ootischenia Landfill and Grohman Narrows Transfer Station, and the construction of the Central Landfill Composting Facility, and to request approval to reissue the Central Landfill Composting Facility Negotiated Request for Proposal, has been received.

RECOMMENDATION:
That Resolution #590/21, being:

That the Board award the Central Composting Facility construction project to Integrated Sustainability Consultants Ltd, and that the Chair and Corporate Officer be authorized to sign the necessary documents to a maximum value of $2,027,799 not including GST;

AND FURTHER that the funds be paid from Service S187 Central Resource Recovery;

AND FURTHER that the Board approve an amendment to the 2021 Financial Plan from S187 Central Resource Recovery Account 60000 to include the increased construction costs for the Central Landfill Composting Facility in the amount of $61,970, and increase Account 43100 Proceeds from Borrowing, an equivalent amount.

BE RESCINDED.

RECOMMENDATION:
That the Board direct staff to prepare a Negotiated Request for Proposal for the Central Landfill Composting Facility Construction and undertake the procurement and negotiation with the proponent that offers the highest value to the RDCK which meets all required scope for less than $1,920,000 plus GST;

AND FURTHER that the Chair and Corporate Officer be authorized to sign the necessary documents to a maximum value of $1,920,000 with the highest ranked proponent following negotiation;

AND FURTHER that the cost be included in the 2022 Financial Plan for Service S187 Central Resource Recovery.

6. **ROSEBERY TRANSFER STATION - WASHROOM UPGRADE** 20 - 23

The September 15, 2021 Committee Report from Shari Imada, Project Manager, providing information to the Committee regarding the reallocation of funds within the 2021 West Resource Recovery Region budget, required to complete the Rosebery Transfer Station washroom project, has been received.

7. **RECYCLE BC DEPOTS - SERVICING**

Travis Barrington, Resource Recovery Technician, will provide a verbal report.

8. **RECYCLE BC DEPOT INCENTIVE RATE CHANGE** 24 - 25

The email correspondence regarding the Recycle BC Depot Incentive Rate Change, has been received.

9. **RECYCLING REGULATION - EPR FIVE YEAR PLAN** 26 - 37

The document titled '*Advanced Recycling in B.C. - Extended Producer Responsibility Five-Year Action Plan 2021-2026*' has been received for information purposes.

10. **PUBLIC TIME**

The Chair will call for questions from the public and members of the media at 4:00 pm.

11. IN CAMERA

11.1. MEETING CLOSED TO THE PUBLIC

The Open meeting will be adjourned after In-Camera without reconvening back into the open session unless there is business that needs to be addressed.

RECOMMENDATION:

In the opinion of the Board and, in accordance with Section 90 of the *Community Charter* the public interest so requires that persons other than DIRECTORS, ALTERNATE DIRECTORS, DELEGATIONS AND STAFF be excluded from the meeting;

AND FURTHER, in accordance with Section 90 of the *Community Charter,* the meeting is to be closed on the basis(es) identified in the following Subsections:

(c) labour relations or other employee relations;
(e) the acquisitions, disposition or expropriation of land or improvements, if the council considers that disclosure could reasonably be expected to harm the interests of the municipality;
(g) litigation or potential litigation affecting the municipality;
(k) negotiations and related discussions respecting the proposed provision of a municipal service that are at their preliminary stages and that, in the view of the council, could reasonably be expected to harm the interests of the municipality if they were held in public.

11.2. RECESS OF OPEN MEETING

RECOMMENDATION:

The September 22, 2021 Joint Resource Recovery Committee Open meeting be recessed at _____ pm in order to conduct the *Closed In-Camera* meeting.

12. ADJOURNMENT

RECOMMENDATION:

The Joint Resource Recovery Committee meeting adjourn at _____ pm.

File: 01-0515-20-JRRC

Joint Resource Recovery Committee
Open Meeting **MINUTES**

A Joint Resource Recovery Committee meeting was held on Wednesday, August 18, 2021 at 1:00 pm by remote meeting due to Novel Coronavirus 2019 (COVID-19).

Members:	Director G. Jackman	Area A (Committee Chair)
	Director T. Wall	Area B
	Director A. Casemore	Area C
	Director A. Watson	Area D
	Director R. Faust	Area E
	Director T. Newell	Area F
	Director H. Cunningham	Area G
	Director W. Popoff	Area H
	Director A. Davidoff	Area I
	Director R. Smith	Area J
	Director P. Peterson	Area K
	Director K. Duff	City of Castlegar
	Councillor A. DeBoon	Town of Creston
	Director S. Hewat	Village of Kaslo
	Director T. Zeleznik	Village of Nakusp
	Director J. Morrison	City of Nelson
	Director C. Moss	Village of New Denver
	Director D. Lockwood	Village of Salmo
	Director L. Main	Village of Silverton
	Director J. Lunn	Village of Slocan
Staff in Attendance:	S. Horn	Chief Administrative Officer
	U. Wolf	General Manager of Environmental Services
	A. Wilson	Resource Recovery Manager
	T. Johnston	Environmental Coordinator
	A. Hamilton	HB Tailings Facility Technologist
	T. Barrington	Resource Recovery Technician
	S. Eckman	Administration Coordinator/Recording Secretary

1. CALL TO ORDER

Chair Jackman called the meeting to order at 1:04 pm.

2. TRADITIONAL LANDS ACKNOWLEDGEMENT STATEMENT

We acknowledge and respect the indigenous peoples within whose traditional lands we are meeting today.

3. ADOPTION OF THE AGENDA

Moved and Seconded,
And Resolved:

The Agenda for the August 18, 2021 Joint Resource Recovery Committee meeting be adopted as circulated with the inclusion of the following:

- Agenda Item 7 – Central Landfill Composting Facility Construction/Contract Award – The August 17, 2021 Committee Report from Alayne Hamilton, HB Tailings Facility Technologist.

before circulation.

Carried

4. RECEIPT OF MINUTES

The July 14, 2021 Joint Resource Recovery Committee Minutes, have been received.

5. RESOURCE RECOVERY PLAN – FINAL FOR SUBMISSION TO PROVINCE

The Resource Recovery Plan dated August 12, 2021, prepared by Maura Walker and Associates and Carey McIver and Associates, has been received.

Todd Johnston, Environmental Coordinator, provided a verbal report on the final Resource Recovery Plan for submission to the Province, summarized below:

1. *The DRAFT RRP, which was presented, along with the results of the Public consultation, to RRPAC on July 13, 2021, and then to the JRRC on July 14, 2021, has been finalized and is ready for submission to the Province. There were NO substantive changes made from the DRAFT presented in July, only minor changes based on comments received at the July JRRC or editorial updates/corrections, specifically:*

    a. *Updated "DRAFT" language to "FINAL";*
    b. *An acknowledgement of the RRPAC in the front of the Plan;*
    c. *Curbside collection (Section 4.2.4) updated to include the consultation steps (to determine interest) taken already and intention to continue investigating implementation of curbside service. The map of potential service areas was added;*
    d. *Update to the environmental coordinator roles (no longer temporary);*
    e. *Minor edits to table and figure references.*

2. *In submitting the FINAL RRP, the Ministry guidelines ask that we include available letters of support from Municipalities. While RDCK Staff did present the DRAFT RRP to municipal councils in June to gather feedback on the DRAFT RRP, these letters from municipalities would be to demonstrate support for the FINAL RRP, and are entirely voluntary. Once the FINAL RRP is adopted by Board, Staff will provide:*

    a. *A copy of the FINAL RRP*
    b. *A formal request for a letter of support, and*
    c. *A template support letter to be used at the discretion of the municipality.*

    Staff will request that any support letters be submitted within one month, so as not to delay final submission to the Province.

3. *The Ministry guidelines provides the following wording on Board resolutions for adopting the Final Resource Recovery Plan:*

   That the Regional District of Central Kootenay submit the RDCK Resource Recovery Plan, August 12, 2021, as approved by the Board on August 19, 2021, to the Minister of Environment for review and approval.

4. *In June 2021, Staff sent a letters to the LKB and reached out via phone to offer a presentation to Chief and Council. LKB emphasized their expectation for a Government-to-Government consultation, however they did not have any Council meetings scheduled at that time until September. Staff are not intending to delay submission of the plan, but are investigating how to best proceed with this engagement.*

Moved and Seconded,
And Resolved that it be **recommended** to the Board that:

The Regional District of Central Kootenay Board approve the Resource Recovery Plan dated August 12, 2021, for submission to the Minister of Environment for review and approval.

Carried

6. FORTIS BC STATUTORY R/W FOR COMPOST FACILITY PROJECTS

The August 5, 2021 Committee Report from Alayne Hamilton, HB Tailings Facility Technologist, presenting the Statutory Right of Way (SRW) agreement that FortisBC Inc. (Fortis) required to install power lines to the Central and Creston Composting Facilities, and to obtain approval to sign the SRW and complete a survey of the power lines after installation, has been received.

Moved and Seconded,
And Resolved that it be **recommended** to the Board that:

That the Board grant two Statutory Right of Ways to FortisBC Inc. over the RDCK–owned properties located at District Lot 10772 Kootenay Land District Rockview M/C and Lot A Plan NEP82851 District Lot 16037 Kootenay Land District for the purpose of installing and maintaining the power supply to the composting facility located at the Creston Landfill and that the Chief Administrative Officer be authorized to sign the necessary documents;

AND FURTHER THAT following installation staff be directed to undertake a legal survey for the purpose of limiting the area included in the Statutory Right of Way, with the estimated cost of $10,000 to be paid from Service S186 East Resource Recovery.

Carried

Moved and Seconded,
And Resolved that it be **recommended** to the Board that:

The Board grant a Statutory Right of Way to FortisBC Inc. over the RDCK–owned property located at Lot A Plan NEP14234 District Lot 1236 Kootenay Land District for the purpose of installing and maintaining the power supply to the composting facility located at the Central Landfill, and that the Chief Administrative Officer be authorized to sign the necessary documents;

AND FURTHER THAT following installation staff be directed to undertake a legal survey for the purpose of limiting the area included in the Statutory Right of Way, with the estimated cost of $10,000 to be paid from Service S187 Central Resource Recovery.

Carried

Moved and Seconded,
And Resolved that it be **recommended** to the Board that:

The Board approve the FortisBC Inc. power line installation costs for the Creston Composting Facility estimated at $96,000 not including GST;

AND FURTHER THAT the Chair and Corporate Officer be authorized to sign the necessary documents to a maximum value of $96,000 not including GST;

AND FURTHER that the funds be paid from Service S186 East Resource Recovery.

Carried

7. CENTRAL LANDFILL COMPOSTING FACILITY CONSTRUCTION/CONTRACT AWARD

The following correspondence has been received:

a) The August 10, 2021 Committee Report from Alayne Hamilton, HB Tailings Facility Technologist, providing an update on project costs for the Central Composting Facility project, and request approval to award a contract for construction to Integrated Sustainability Consultants Ltd.
b) The August 17, 2021 Committee Report from Alayne Hamilton, HB Tailings Facility Technologist, providing an amendment to the Central Landfill Composting Facility Construction report, provided as Item 7 (Pages 120-123) in the August 18, 2021 Joint Resource Recovery Committee meeting agenda package.

Moved and Seconded,
And Resolved that it be **recommended** to the Board that:

That the Board award the Central Composting Facility construction project to Integrated Sustainability Consultants Ltd, and that the Chair and Corporate Officer be authorized to sign the necessary documents to a maximum value of $2,027,799 not including GST;

AND FURTHER that the funds be paid from Service S187 Central Resource Recovery;

AND FURTHER that the Board approve an amendment to the 2021 Financial Plan from S187 Central Resource Recovery Account 60000 to include the increased construction costs for the Central Landfill Composting Facility in the amount of $61,970, and increase Account 43100 Proceeds from Borrowing, an equivalent amount.

Carried

Moved and Seconded,
And Resolved that it be **recommended** to the Board that:

That the resolution 418/19 being:

That the Central Resource Recovery Committee supports the Central Landfill Composting Facility project and commits to funding the RDCK's share of eligible project costs and other costs including ineligible expenses and possible overages, for the total amount of $801,053;

AND FURTHER, that in accordance with Section 175 of the Community Charter, the Central Resource Recovery Committee authorizes staff to submit an application to the Municipal Finance Authority for a Loan Under Agreement to borrow short term funds for a five-year term in the amount of $801,053 for capital projects for the Central Landfill Composting Facility (Service S187).

Be amended to read:

That the Central Resource Recovery Committee supports the Central Landfill Composting Facility project and commits to funding the RDCK's share of eligible project costs and other costs including ineligible expenses and possible overages, for the total amount up to $863,023;

AND FURTHER, That the Board of the Regional District of Central Kootenay authorizes up to $863,023 be borrowed, under Section 403 of the Local Government Act, from the Municipal Finance Authority Short Term Financing, for the purpose of capital projects for the Central Landfill Composting Facility; and that the loan be repaid within 5 years, with no rights of renewal.

Carried

8. RECYCLING DEPOT HOURS OF OPERATION & STAFFING

The August 11, 2021 Committee Report from Travis Barrington, Resource Recovery Technician, reviewing the staffing and operating hours at several RDCK recycling depots and suggesting alternate approaches, has been received.

Moved and Seconded,
And Resolved that it be **recommended** to the Board that:

That the Board direct staff to change the operating hours at the following Resource Recovery Facilities effective October 1, 2021:

- Kokanee Marina Recycling Depot to be open from 8:30 am to 4:00 pm on Sunday, Tuesday and Thursday
- Nelson Lakeside Recycling Depot to be open from 8:30 am to 5:30 pm Monday to Saturday
- Ymir Transfer Station to be open from 9:00 am to 3:00 pm on Sundays

AND FURTHER that the Board support assigning two overlapping Recycling and Waste Educator shifts to the Nelson Lakeside, Grohman Narrows, and Ootischenia Landfill Recycling Depots.

Carried

9. RECYCLING DEPOT SERVICING CONTRACT WITH GFL ENVIRONMENTAL – PRICING ADJUSTMENTS

Travis Barrington, Resource Recovery Technician, provided a verbal report on pricing adjustments for the contract with GFL Environmental to service the recycling depots, summarized below:

Green for Life Environmental (GFL) is the post-collection service provider for material hauling from all RDCK Recycle BC (RBC) core recycling depots. In addition GFL was awarded the service agreement to haul commercial (ICI) material from select depots and RBC materials from RDCK satellite depots. This second agreement is administered and paid directly by the RDCK. GFL's Trail division moves these materials in the West and Central Sub-regions and GFL's Cranbrook Division operates in the East Sub-region. Both divisions act independent of one another and have separate agreements with the RDCK.

The signed agreement with GFL Trail for ICI and Satellite hauling stipulated the following:

- *Service at RDCK satellite depots would be billed at a route rate (to service several depots in one trip) or a rate to service a specific depot individually depending on how GFL's truck collected material;*
- *ICI rates at the Nelson Lakeside depot and Nakusp depot specified that two 40-yard roll off bins would be provided to collect commercial cardboard and be serviced in tandem; and*
- *The service rate for Nelson Lakeside and Nakusp specified that it was to haul both roll off bins at once.*

Upon review of invoices submitted by GFL RDCK staff found that:

- *All satellite depots in the West Sub-region were billed at the route rate and all satellites in the Central were billed at the individual depot rate; and*
- *ICI bin service at Nelson Lakeside and Nakusp was billed at the specified two-bin rate although only one bin was provided at each site,*

RDCK staff then held payment of the disputed invoices for Central satellite hauling and Nelson and Nakusp ICI hauling. Discussion with GFL confirmed that satellite depots are almost exclusively serviced as part of a route with both other satellites and RBC core depots. Only the Grohman Narrows satellite depot is often serviced individually due to its high recycling volumes. Similarly, ICI roll off bins are almost always hauled in tandem on a trailer along with another roll off bin containing RBC recycling material from a core depot. This suggests part of the trip is paid for by RBC.

As a result of these discussions GFL has proposed new hauling rates for the Kokanee Marina, Marblehead, Ymir, Lakeside (Nelson), Kaslo, New Denver and Nakusp Recycling Depots.

The proposed satellite hauling rates would apply every time a depot is serviced regardless of whether it is part of a longer route or not.

New ICI rates were also proposed for Kaslo and New Denver to reflect the fact that ICI bins from these sites are hauled on a trailer along with RBC bins as well, so that the cost to haul should be shared.

The new rates are estimated to reduce the value of the ICI and Satellite hauling agreements by up to $40,000 annually.

10. PUBLIC TIME

The Chair called for questions from the public and members of the media at 2:21 pm.

11. ADJOURNMENT

Moved and Seconded,
And Resolved:

The August 18, 2021 Joint Resource Recovery Committee meeting adjourned at 2:23 pm.

Carried

CERTIFIED CORRECT

Director G. Jackman, Committee Chair

BOARD RESOLUTIONS AS ADOPTED AT THE AUGUST 18, 2021 JOINT RESOURCE RECOVERY COMMITTEE MEETING

RECOMMENDATION #1

The Regional District of Central Kootenay Board approve the Resource Recovery Plan dated August 12, 2021, for submission to the Minister of Environment for review and approval.

RECOMMENDATION #2

That the Board grant two Statutory Right of Ways to FortisBC Inc. over the RDCK–owned properties located at District Lot 10772 Kootenay Land District Rockview M/C and Lot A Plan NEP82851 District Lot 16037 Kootenay Land District for the purpose of installing and maintaining the power supply to the composting facility located at the Creston Landfill and that the Chief Administrative Officer be authorized to sign the necessary documents;

AND FURTHER THAT following installation staff be directed to undertake a legal survey for the purpose of limiting the area included in the Statutory Right of Way, with the estimated cost of $10,000 to be paid from Service S186 East Resource Recovery.

RECOMMENDATION #3

The Board grant a Statutory Right of Way to FortisBC Inc. over the RDCK–owned property located at Lot A Plan NEP14234 District Lot 1236 Kootenay Land District for the purpose of installing and maintaining the power supply to the composting facility located at the Central Landfill, and that the Chief Administrative Officer be authorized to sign the necessary documents;

AND FURTHER THAT following installation staff be directed to undertake a legal survey for the purpose of limiting the area included in the Statutory Right of Way, with the estimated cost of $10,000 to be paid from Service S187 Central Resource Recovery.

RECOMMENDATION #4

The Board approve the FortisBC Inc. power line installation costs for the Creston Composting Facility estimated at $96,000 not including GST;

AND FURTHER THAT the Chair and Corporate Officer be authorized to sign the necessary documents to a maximum value of $96,000 not including GST;

AND FURTHER that the funds be paid from Service S186 East Resource Recovery.

RECOMMENDATION #5

That the Board award the Central Composting Facility construction project to Integrated Sustainability Consultants Ltd, and that the Chair and Corporate Officer be authorized to sign the necessary documents to a maximum value of $2,027,799 not including GST;

AND FURTHER that the funds be paid from Service S187 Central Resource Recovery;

AND FURTHER that the Board approve an amendment to the 2021 Financial Plan from S187 Central Resource Recovery Account 60000 to include the increased construction costs for the Central Landfill Composting Facility in the amount of $61,970, and increase Account 43100 Proceeds from Borrowing, an equivalent amount.

RECOMMENDATION #6

That the resolution 418/19 being:

That the Central Resource Recovery Committee supports the Central Landfill Composting Facility project and commits to funding the RDCK's share of eligible project costs and other costs including ineligible expenses and possible overages, for the total amount of $801,053;

AND FURTHER, that in accordance with Section 175 of the Community Charter, the Central Resource Recovery Committee authorizes staff to submit an application to the Municipal Finance Authority for a Loan Under Agreement to borrow short term funds for a five-year term in the amount of $801,053 for capital projects for the Central Landfill Composting Facility (Service S187).

Be amended to read:

That the Central Resource Recovery Committee supports the Central Landfill Composting Facility project and commits to funding the RDCK's share of eligible project costs and other costs including ineligible expenses and possible overages, for the total amount up to $863,023;

AND FURTHER, That the Board of the Regional District of Central Kootenay authorizes up to $863,023 be borrowed, under Section 403 of the Local Government Act, from the Municipal Finance Authority Short Term Financing, for the purpose of capital projects for the Central Landfill Composting Facility; and that the loan be repaid within 5 years, with no rights of renewal.

RECOMMENDATION #7

That the Board direct staff to change the operating hours at the following Resource Recovery Facilities effective October 1, 2021:

- Kokanee Marina Recycling Depot to be open from 8:30 am to 4:00 pm on Sunday, Tuesday and Thursday
- Nelson Lakeside Recycling Depot to be open from 8:30 am to 5:30 pm Monday to Saturday
- Ymir Transfer Station to be open from 9:00 am to 3:00 pm on Sundays

AND FURTHER that the Board support assigning two overlapping Recycling and Waste Educator shifts to the Nelson Lakeside, Grohman Narrows, and Ootischenia Landfill Recycling Depots.

Committee Report

Date of Report:	September 9, 2021
Date & Type of Meeting:	September 22, 2021 Joint Resource Recovery Committee
Author:	Alayne Hamilton, HB Tailings Facility Technologist
Subject:	ORGANICS PROJECTS UPDATES – CENTRAL COMPOSTING FACILITY, AND UPGRADES TO OOTISCHENIA LANDFILL AND GROHMAN NARROWS TRANSFER STATION
File:	12-6300-01
Electoral Area/Municipality	Central and West Sub-Regions

SECTION 1: EXECUTIVE SUMMARY

The purpose of this report is to update the Joint Resource Recovery Committee (JRRC) on the planned organics transfer upgrades at Ootischenia Landfill and Grohman Narrows Transfer Station, and the construction of the Central Landfill Composting Facility, and to request approval to reissue the Central Landfill Composting Facility Negotiated Request for Proposal.

SECTION 2: BACKGROUND/ANALYSIS

Ootischenia Landfill Organics Transfer

On July 14, 2021, Staff brought an Organics Transfer Projects report to the JRRC and requested approval to issue a Request for Proposal (RFP) for upgrades to the Ootischenia transfer area to facilitate organics transfer. The Resolution that was passed at the July 15, 2021 Regular Open Board Meeting was:

#535/21 *That the Board direct staff to prepare a Request for Proposal for the Ootischenia Landfill and award a contract for construction of the transfer area upgrades to the proponent that offers the highest value to the RDCK which meets all required scope for less than $186,081 plus GST;*

AND FURTHER that the Chair and Corporate Officer be authorized to sign the necessary documents to a maximum value of $186,081 plus GST;

AND FURTHER that up to $186,081 plus GST is apportioned from Service S188 West Resource Recovery for the project.

Staff intended to issue the RFP as soon as the Issued for Tender (IFT) package was completed by Tetra Tech. The IFT package includes the final detailed design and technical specifications. Staff anticipated having the IFT package in August which would have made for a tight timeline to issue the RFP, go through the contract process, and start construction prior to the rainy season starting, but felt it was still feasible. Unfortunately, Tetra Tech has experienced some lengthy delays in providing the IFT package and it has not yet been received. It is now very likely too late in the season to start construction in 2021 without running the risk of the project being incomplete due to inclement weather.

The initial push to complete construction in 2021 was so the City of Castlegar could start their organics curbside collection program in early 2022, which they committed to in 2019 as part of the Organics Infrastructure Program grant application process. Staff met with City of Castlegar Staff to discuss their organics collection plans for 2022.

The City of Castlegar will not be ready to start organics collection until the late summer or early fall of 2022. This delay in their plans removes the urgency to complete the upgrades at the Ootischenia Landfill.

Staff are suggesting keeping the existing recommendation to issue the RFP with the intent to complete the construction works in spring of 2022, as soon as ground conditions allow.

Grohman Narrows Transfer Station Upgrades

As was outlined in the July 14th Organics Transfer Projects JRRC report, the Grohman Narrows Transfer Station requires minor upgrades to facilitate organics transfer to the Central Landfill Composting Facility. Staff are still waiting on details from the City of Nelson on their curbside collection plans such as size of the collection truck, schedule, etc. which are required to assist in determining the management of the FoodCycler end product and other organics they plan to collect. To date, no response from the City has been received so the design is currently on hold until the information is received. Because the works are expected to be minor, they can be completed in the 2022 after a Request for Quote process.

Central Landfill Composting Facility

Staff went through the Negotiated Request for Proposal (NRFP) process for the Central Landfill Composting Facility construction contract in March and April of 2021. After contract award was delayed due to the new *Environmental Management Act* Site Disclosure Statement process, Staff began renegotiating with the preferred contractor, Integrated Sustainability Consultants Ltd. (Integrated). Staff brought a report on the Central Landfill Composting Facility construction cost increases to the JRRC on August 18th, and provided an amendment to that report as there were further reported increases to the estimated construction costs prior to the JRRC meeting. At the August 18th meeting, Staff received approval to proceed with the contract award to Integrated at a total cost of $2,027,799 not including GST.

Staff indicated at the August 18th meeting that further cost efficiencies would be investigated prior to construction. Before signing a contract, Staff suggested to Integrated that they request pricing options from two local area electrical and structural contractors as they had suggested to Staff that their pricing could come in lower than what Integrated's sub-contractors had provided. Integrated was slow to return updated pricing, and on September 7th indicated to Staff that discussions with other contractors did not reduce the original contract price and there would be further increases of $124,360.50 from their existing sub-contractors. As this increase is above available budgets, and available OIP funds, Staff feel at this point it is best to reissue the NRFP and proceed with construction in 2022.

There is little option to still proceed with the project in 2021 as the soonest Board consideration for approval of the new increased cost would be end of September. The borrow area at the Central Landfill where the composting facility will be constructed becomes unworkable during very wet periods, which are quickly approaching, and it would be difficult to complete the pad base preparation and ditching when the borrowing is wet. Additionally, asphalt paving cannot be certified after October 31, and it is unlikely the pad area would be prepared before then.

In the August 18th JRRC report, Staff outlined that although the Province indicated they would be extending the OIP funding deadline to 2024, the formal approval of the extension had not been received at the time of writing the report, so Staff were not confident that the project could be pushed to 2022. On September 2nd, Staff received the formal Shared Cost Agreement amendment to extend the OIP funding deadline to March 31, 2024, so the project can proceed in 2022 with full grant funding in place.

Staff discussed a potential project delay with our partners, the Regional District of Kootenay Boundary, City of Castlegar, and City of Nelson, and all confirmed that they will not be ready to start supplying feedstock for the composting facility until late summer or early fall of 2022, if not later. If construction can be started as soon as ground conditions allow in 2022, having the facility fully commissioned by late summer will be achievable.

Staff are recommending rescinding the August 19th, 2021 Board resolution that approved issuing the construction contract to Integrated. The resolution proposed to be rescinded is as follows:

#590/21 *That the Board award the Central Composting Facility construction project to Integrated Sustainability Consultants Ltd, and that the Chair and Corporate Officer be authorized to sign the necessary documents to a maximum value of $2,027,799 not including GST;*

AND FURTHER that the funds be paid from Service S187 Central Resource Recovery;

AND FURTHER that the Board approve an amendment to the 2021 Financial Plan from S187 Central Resource Recovery Account 60000 to include the increased construction costs for the Central Landfill Composting Facility in the amount of $61,970, and increase Account 43100 Proceeds from Borrowing, an equivalent amount.

Staff are recommending working with Tetra Tech to update the compost facility design and technical specifications based on cost efficiencies noted on the Creston Composting Facility Project. Staff expect that if these amendments are made, the project can be completed in 2022 under the current approved amount, even with inflation increases. If approval to reissue the NRFP is provided, Staff are anticipating that closing the NRFP in January and awarding a contract early in 2022 will allow a contractor to secure building and electrical supplies, and equipment, at a lower costs than what is being observed in the market right now.

SECTION 3: DETAILED ANALYSIS

3.1 Financial Considerations – Cost and Resource Allocations:

Included in Financial Plan:	☐ Yes	☒ No	**Financial Plan Amendment:**	☐ Yes	☒ No
Debt Bylaw Required:	☐ Yes	☒ No	**Public/Gov't Approvals Required:**	☐ Yes	☒ No

Ootischenia Landfill Organics Transfer

Staff obtained approval to issue the RFP and award the construction contract at up to a maximum value of $186,081 in Resolution No. 532/21. Staff are recommending keeping the contract award approval values the same and are anticipating that issuing the RFP late in the year and finalizing a contract in early 2022 will more provide favorable pricing than pushing for late season construction in 2021.

There is currently $256,612.82 in the 2021 Financial Plan in S188 West Resource Recovery for the upgrades at the Ootischenia Landfill, including $186,081 for construction, $40,000 for the purchase of new transfer bins, and $30,531 for design and engineering. All construction and bin purchase costs will roll over to 2022. Much of the design and engineering budget in 2021 has been utilized due to several scope changes that were needed during design development, and there will be some additional costs in 2022 associated with IFC drawing preparing, engineering oversight during construction, and as-built reporting. Staff are recommending at total of $269,681 be included in the 2022 Financial Plan for S188 West Resource Recovery for the following items associated with the upgrades at Ootischenia Landfill:

- $186,081 for construction works;
- $18,600 for additional contingency at 10%;
- $50,000 towards the purchase of new transfer bins; and,

- $15,000 for design and engineering.

The 2021 budget included $40,000 for 2 new transfer bins. Staff are now recommending that 5 new 30 yard transfer bins be purchased and split between Ootischenia and Grohman; if a bin is out of circulation due to damage or repair, an additional bin will be available. The bins are approximately $20,000 each so there has been an increase of $10,000 for both Ootischenia and Grohman from 2021 estimates to account for splitting the additional bin.

Grohman Narrows Organics Transfer

As the design has been on hold while waiting for information from the City of Nelson, Staff do not have detailed costing from Tetra Tech for the works at Grohman Narrows. Once detailed cost is obtained at the 90% design stage, Staff will bring a report to the Committee to request approval to issue a Request for Quote for the project.

There is currently $133,000 in the 2021 Financial Plan in S187 Central Resource Recovery for the upgrades at the Grohman Narrows Transfer Station, including $40,000 for the purchase of two new transfer bins for, $80,000 for minor upgrades to the bin wall area, and $13,000 for design and engineering. All construction and bin purchase costs, as well as some design costs, will roll over to 2022. Staff are recommending at total of $155,000 be included in the 2022 Financial Plan for S187 Central Resource Recovery for the following items associated with the upgrades at Grohman Narrows:

- $80,000 for construction works;
- $16,000 for additional contingency at 20%, which is the recommended contingency percentage for a conceptual design;
- $50,000 towards the joint purchase of 5 new transfer bins with the West sub-region; and,
- $15,000 for design and engineering.

Central Landfill Composting Facility

Staff obtained approval to award the Contract for the Central Landfill Composting Facility to Integrated at up to a maximum value of $2,027,799, not including GST, in Resolution No. 590/21. Integrated further increased their price by $124,360.50 which includes a 10% contingency; this would result in a new contract price for 2021 construction of $2,152,159 not including GST. Due to the cost increases above funds available in the 2021 Financial Plan and the OIP grant, Staff are recommending rescinding Resolution No. 590/21 and reissuing the NRFP for construction in 2022.

The cost breakdown between 2021 costs, and funds available for work in 2022 is shown below:

Total Budget in 2021 Financial Plan for S187	$2,289,802
2021 Engineering and Design Work	-$ 91,000
2021 FortisBC Power Installation Costs	-$ 53,398
Total Remaining Funds Available in 2021 Financial Plan	$2,145,404

Although there are some anticipated savings in the engineering and design works in 2021 due to construction oversight and administration, and final as-built reporting not being required, Staff are anticipating some additional costs in 2021 associated with revising the design and technical specifications although it is expected that work can be completed within the existing 2021 budgets. Staff are recommending the $91,000 in the 2021 Financial Plan for engineering and design remain to accommodate additional work required to amend the facility design and technical specifications, as well as to complete early tender support if the NRFP is issued in late November.

In 2022, the engineering and design costs for Tetra Tech, based on their 2020 proposal submission, are anticipated to include:

Proposal evaluations in early 2022	$ 2,000
IFC drawing set development	$ 2,000
Construction oversight, site visits, and contract administration	$20,000
Final as-built reporting	$ 9,000
Total estimated design and engineering cost in 2022	$33,000

Staff are recommending at total of $2,145,000 be included in the 2022 Financial Plan for S187 Central Resource Recovery for the following items associated with the Central Landfill Composting Facility:

- $1,920,000 for construction works including all provisional items;
- $192,000 for additional contingency; and
- $33,000 for design and engineering.

Staff are requesting approval to proceed with a new NRFP process for construction of the Central Landfill Composting Facility in 2022 and to award a contract to the highest ranked proponent up to a total value of $1,920,000 not including GST.

3.2 Legislative Considerations (Applicable Policies and/or Bylaws):

None at this time.

3.3 Environmental Considerations

None at this time.

3.4 Social Considerations:

None at this time.

3.5 Economic Considerations:

None at this time.

3.6 Communication Considerations:

Staff will prepare a Media Release in the coming weeks to notify the public of the delay of the construction of the Central Landfill Composting Facility and provide an update on the completion of the Creston Facility.

3.7 Staffing/Departmental Workplace Considerations:

As per RDCK's purchasing policy, the Senior Project Manager will lead the NRFP process, with the HB Tailings Facility Technologist supporting the NRFP process.

3.8 Board Strategic Plan/Priorities Considerations:

Organics diversion is a major component of advancing the RDCK Board's priority of Waste Management and Alternatives, and RDCK's Strategic Objective to adapt to our changing climate and mitigate greenhouse gas emissions. These projects are also in line with the RDCK's Strategic Objective to continually innovate to reduce the impact of solid waste.

SECTION 4: OPTIONS & PROS / CONS

Central Landfill Composting Facility

Option 1: That Resolution 590/21, approving award the Central Landfill Composting Facility construction contract to Integrated Sustainability Consultants Ltd up to a total amount of $2,027,799 not including GST BE RESCINDED.

AND FURTHER That the Board direct staff to prepare a Negotiated Request for Proposal for the Central Landfill Composting Facility Construction and undertake the procurement and negotiation with the proponent that offers the highest value to the RDCK which meets all required scope for less than $1,920,000 plus GST;

AND FURTHER that the Chair and Corporate Officer be authorized to sign the necessary documents to a maximum value of $1,920,000 with the highest ranked proponent following negotiation;

AND FURTHER that the cost be included in the 2022 Financial Plan for Service S187 Central Resource Recovery.

PROS:

- Provides the opportunity to obtain more favorable pricing by reissuing the NRFP and completing design amendments based on efficiencies observed at the Creston Compost Facility project.

CONS:

- The non-residential construction market is still very unstable. Although staff are confident completing design modifications and issuing during a favorable time of year will result in better pricing, there is a possibility the RDCK will not see prices lower than that which was authorized in resolution 590/21.
- The project is not completed in 2021 as was previously communicated to the public and the Board.
- Requires a second procurement process.
- Requires cost increases for design and technical specification modifications.

Option 2: That Resolution 590/21, approving award the Central Landfill Composting Facility construction contract to Integrated Sustainability Consultants Ltd up to a total amount of $2,027,799 not including GST BE RESCINDED; AND FURTHER, that the Committee direct staff to return with updated costing once design modification are completed, to obtain approval to reissue the Negotiated Request for Proposal for construction in 2022.

PROS:

- Provides more certainty in costing when reissuing the NRFP.

CONS:

- Requires additional approvals from the Board which could delay issuing the NRFP. The ideal period to have the NRFP close to receive the lowest possible cost proposals is in early in 2022.

Option 3: That the Board support delaying the Central Landfill Composting Facility construction works to 2022, and directs staff to provide Integrated Sustainability Consultants Ltd. with a Notice of Award for the project, at a total value of $2,152,164 not including GST to complete the project in 2022.

PROS:

- Does not require an additional procurement process.

- Staff could continue to negotiate with Integrated on cost efficiencies before a contract is signed.

CONS:

- Does not provide the opportunity to obtain potentially better pricing for 2022 construction.

SECTION 5: RECOMMENDATIONS

Recommendation #1:
That Resolution #590/21, being:

> *That the Board award the Central Composting Facility construction project to Integrated Sustainability Consultants Ltd, and that the Chair and Corporate Officer be authorized to sign the necessary documents to a maximum value of $2,027,799 not including GST;*
>
> *AND FURTHER that the funds be paid from Service S187 Central Resource Recovery;*
>
> *AND FURTHER that the Board approve an amendment to the 2021 Financial Plan from S187 Central Resource Recovery Account 60000 to include the increased construction costs for the Central Landfill Composting Facility in the amount of $61,970, and increase Account 43100 Proceeds from Borrowing, an equivalent amount.*

BE RESCINDED.

Recommendation #2:
That the Board direct staff to prepare a Negotiated Request for Proposal for the Central Landfill Composting Facility Construction and undertake the procurement and negotiation with the proponent that offers the highest value to the RDCK which meets all required scope for less than $1,920,000 plus GST;

AND FURTHER that the Chair and Corporate Officer be authorized to sign the necessary documents to a maximum value of $1,920,000 with the highest ranked proponent following negotiation;

AND FURTHER that the cost be included in the 2022 Financial Plan for Service S187 Central Resource Recovery.

Respectfully submitted,

Alayne Hamilton – HB Tailings Facility Technologist

CONCURRENCE

Senior Project Manager – AJ Evenson
Resource Recovery Manager – Amy Wilson
General Manager of Environmental Services – Uli Wolf

ATTACHMENTS: NONE

Committee Report

Date of Report:	September 15, 2021
Date & Type of Meeting:	September 22, 2021, JRRC Committee
Author:	Shari Imada, Project Manager
Subject:	ROSEBERY TRANSFER STATION WASHROOM PROJECT
File:	12-6300-20
Electoral Area/Municipality	Electoral Area H

SECTION 1: EXECUTIVE SUMMARY

The purpose of this report is to provide information to the Committee regarding the reallocation of funds within the 2021 West Resource Recovery Region budget, required to complete the Rosebery Transfer Station washroom project.

SECTION 2: BACKGROUND/ANALYSIS

A washroom project has been included in the 2021 and 2022 budgets for Rosebery Transfer Station. The project consists of a water supply, washroom facility, and septic system.

After research and analysis of options, staff has determined that the most cost efficient option for a washroom facility and related services at Rosebery Transfer Station involves purchasing a stand-alone portable washroom, which includes a 120 gallon fresh (non-potable) water tank, toilet, sink, water heater and power (lights and an outlet). The wastewater will be treated on site in a septic system. The washroom will be powered by a permanent circuit addition from the existing electrical service in the adjacent attendant building. It is expected that the water tank would need to be refilled 2-3 times per year, by a local contractor.

Staff plans to outlay the entire project in 2021, in order to realize cost efficiencies in contractor mobilization, portable washroom supply, and project management costs. Staff plans to re-allocate funds from the Slocan Transfer Station washroom project to achieve this.

Note that staff has decided to delay the Slocan Transfer Station washroom construction budgeted for 2021 to coincide with the proposed transfer station upgrade planned for 2023, in order to ensure that the washroom facility and septic system is coordinated with the future transfer station layout.

SECTION 3: DETAILED ANALYSIS

3.1 Financial Considerations – Cost and Resource Allocations:

Included in Financial Plan:	☒ Yes	☐ No	**Financial Plan Amendment:**	☐ Yes	☒ No
Debt Bylaw Required:	☐ Yes	☒ No	**Public/Gov't Approvals Required:**	☐ Yes	☒ No

The 2021 budget allocated for the Rosebery Transfer Station washroom project is $30,000 and the 2022 budget is $28,800, for a total of $58,800. The actual project costs with the proposed solution is estimated to be $40,000, which will provide a total savings of $18,800.

The additional project cost of $10,000 over the 2021 budget will be reallocated from the Slocan Transfer Station washroom project 2021 budget of $44,000. This $10,000 which is allocated within the 2022 budget for Rosebery

Transfer Station will then show in the 2022 budget to be re-allocated to the Slocan Transfer Station washroom project for budget year 2023.

Both the Slocan and Rosebery projects are intended to be funded by transfer from S188 West Waste Reserves.

3.2 Legislative Considerations (Applicable Policies and/or Bylaws):

The septic system will adhere to Interior Health regulations.

3.3 Environmental Considerations

The creation of an onsite septic system will prevent raw sewage from being transported to an approved treatment facility.

3.4 Social Considerations:

N/A.

3.5 Economic Considerations:

N/A.

3.6 Communication Considerations:

N/A.

3.7 Staffing/Departmental Workplace Considerations:

Project Management staff will be overseeing this project. Resource Recovery attendants at Rosebery Transfer Station will benefit from having an upgraded, cleanable washroom facility with a water source on site allowing for washing of hands and a flushable toilet.

3.8 Board Strategic Plan/Priorities Considerations:

This project aligns with: to excel in governance and service delivery, and to manage our assets and operations in a fiscally responsible manner.

SECTION 4: OPTIONS & PROS / CONS

Staff can install the septic system in 2021 and defer the portable washroom supply and installation until 2022. However, staff would expect the project costs to increase by 10% of the project value ($4,000) due to increased washroom supply costs, contractor inefficiencies and extra project management requirements.

SECTION 5: RECOMMENDATIONS

None at this time.

Respectfully submitted,

Shari Imada, Project Manager

CONCURRENCE

Resource Recovery Manager - Amy Wilson

ATTACHMENTS:

Attachment A – JobJon Brochure

Attachment B – Site Plan

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- Width = 6′ 4″
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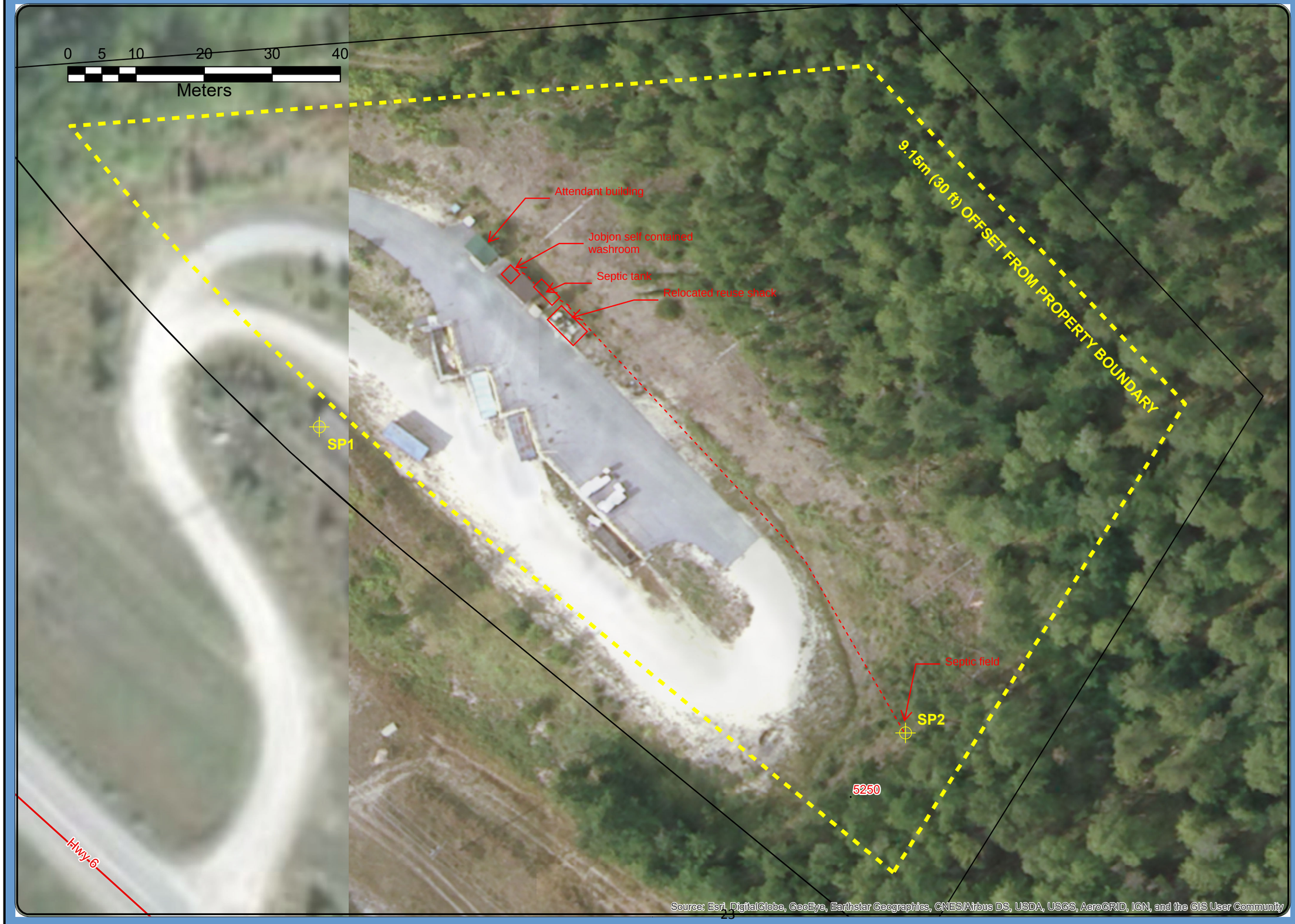


REGIONAL DISTRICT OF CENTRAL KOOTENAY

Legend

- Civic Address
- Streets
- 30m Property Offset
- Property Boundaries

N

Map Projection: UTM Zone 11
Map Datum: NAD83

Date: 9/16/2019

0 3.5 7 14
Meters

DATA SOURCES

The following sources of data are updated as changes occur:

Cadastral Lot - Surveyed lots/parcels of land; Sources: Crown Land Registry Services and RDCK

District Lot; Source: Crown Land Registry Services, Integrated Cadastral Initiative (ICI) and RDCK

TRIM Data - Planimetry, Unsurveyed Roads, and Contours; Source: Ministry of Water, Land and Air Protection

ALR - Agricultural Land Reserve; Source: BC Land Reserve Commission

Zoning - Rural Land Use, Land Use and Zoning Bylaws, where bylaws are in place; Source: RDCK

Roads - Road centerline compiled 2003; Source: RDCK

Regional District of Central Kootenay
Box 590, 202 Lakeside Drive, Nelson, BC V1L 5R4
Phone: (250) 352-6665
Toll-Free 1-800-268-7325 (BC)
Fax: (250) 352-9300 Internet: www.rdck.bc.ca

ROSEBERRY TRANSFER STATION

Shanna Eckman

Subject: FW: Depot Incentive Rate Change

From: Tessa Janzen <tjanzen@recyclebc.ca>
Sent: September 3, 2021 10:16 AM
Subject: Depot Incentive Rate Change

CAUTION **This email originated from outside the organization. Please proceed only if you trust the sender.**

Dear Depot Collectors,

We are pleased to announce the implementation of new depot collection financial incentive rates within the Recycle BC program. Effective January 1, 2022, there will be an increase to many of the incentive rates for applicable depot materials.
As you may recall, Recycle BC hosted two webinars in July 2020 for collection partners to consult on the depot incentive review process, cost study findings and proposed financial incentive rates for depot collectors (https://recyclebc.ca/financial-incentive-consultation/).

The key inputs that went into the new depot incentives included collection performance, contamination impact, cost study findings and other factors such as depots collecting an increased volume of lightweight materials.

Changes to the depot incentive rates include:

- Concentrated payment increases in light-weight material categories.
    - 150% collection payment increase for plastic bags and overwrap as well as OFPP and a 100% increase to the baling incentive.
    - 150% collection payment increase for foam and a 100% increase to the baling incentive.
- 30% increase to containers and 10% for paper (heavier) to give equivalency for super sacks and bales for these materials (depots without curbside).
- Historic service administration top-up for local government depots has been incorporated into the per tonne rate for all materials for all depots and the separate per HH top-up will be discontinued.

After the recent approval of our cost study methodology by the BC Ministry of Environment and Climate Change Strategy, we can now move forward with these new incentives.

A summary of the new depot incentive rates is outlined in the table below.

Category Description	Current ($/Tonne)			New ($/Tonne) Effective January 1, 2022		
	Without Curb/MF Rate	With Curb/MF Rate	Baled	Without Curb/MF Rate	With Curb/MF Rate	Baled
Paper and cardboard	$80	$60	$110	$88	$60	$110
Containers	$130	$90	$110	$169	$90	$110

Plastic Bags & Overwrap + OFPP	$500	$500	$330	$1,250	$1,250	$660
Foam - White & Coloured	$800	$800		$2,000	$2,000	
Glass Containers	$90	$90		$90	$90	

In the coming weeks, you will receive a formal Change Order to reflect the change in incentive rates to your Depot Statement of Work, which will require your signature to implement.

If you have any questions regarding the changes outlined in this email please reach out to your dedicated field services representative or respond to this email directly.

Thank you.

Sincerely,

TESSA JANZEN
Collection Coordinator

Recycle BC
405-221 West Esplanade,
North Vancouver, BC V7M 3J3
M 778-257-3741
RecycleBC.ca

This message is intended only for the use of the individual or entity to which it is addressed, and may contain information that is privileged and confidential. If you have received this message in error, you are hereby notified that any dissemination, distribution or copying of this communication is

Shanna Eckman

Subject: FW: Recycling in B.C. – Extended Producer Responsibility Five-Year Action Plan

From: ENV Extended Producer Responsibility ENV:EX <ExtendedProducerResponsibility@gov.bc.ca>
Sent: September 13, 2021 1:51 PM
To: ENV Extended Producer Responsibility ENV:EX <ExtendedProducerResponsibility@gov.bc.ca>
Subject: Recycling in B.C. – Extended Producer Responsibility Five-Year Action Plan

CAUTION **This email originated from outside the organization. Please proceed only if you trust the sender.**

Reference: 381827

Dear stakeholder:

This email is to notify you that the British Columbia (B.C.) Ministry of Environment and Climate Change Strategy (the ministry) has published a five-year action plan for expanding recycling and waste prevention through the addition of new products to the Recycling Regulation and evaluation of other waste prevention policy approaches.

Extended Producer Responsibility Five-Year Action Plan

B.C. currently regulates many products through Extended Producer Responsibility (EPR), requiring producers (manufacturers, distributors, and retailers) of designated products to take responsibility for the life cycle of their products, including collection and recycling. This shifts the responsibility and costs from local and Indigenous governments and taxpayers to the producers and consumers of products.

The action plan sets out the ministry's plans, including projected timelines, to regulate more products through EPR and evaluate other waste prevention policy approaches. By regulating even more products, EPR can make recycling accessible for consumers across the province, incent innovation, grow B.C. recycling businesses, and create job opportunities, while also reducing local and Indigenous governments' waste management costs.

The plan outlines key actions the ministry will take to further B.C.'s position as a leader in EPR and waste prevention, including:

- Expanding the products regulated under EPR to include:
  - Hybrid and electric vehicle batteries and other battery types
  - Mattresses and foundations
  - Compressed canisters, such as single-use camping fuel and fire extinguishers
  - Medical sharps used by people at home
  - Emerging electronics and more moderately hazardous products by clarifying product categories
- Supporting data collection and research to better understand the management of packaging and paper in the Industrial, Commercial, and Institutional sector to determine the appropriate policy options going forward.

To read more, please see:

- B.C. Gov News release - https://news.gov.bc.ca/releases/2021ENV0052-001767
- Five-Year Action Plan - https://www2.gov.bc.ca/assets/gov/environment/waste-management/recycling/recycle/extended_producer_five_year_action_plan.pdf

Input leads to action
In the Fall of 2020, the ministry published a Recycling Regulation Policy Intentions Paper to engage with key partners and stakeholders on proposed priorities to regulate more products for recycling. Feedback captured in the Summary of Feedback Report reflects support from a range of stakeholders, and Indigenous partners and recycling organizations expressing a desire to expand EPR.

General information, future updates and contact information can be found on B.C.'s Extended Producer Responsibility webpage at the following link: https://www2.gov.bc.ca/gov/content/environment/waste-management/recycling/extended-producer-responsibility

Thank you again for your ongoing interest and participation.

Advancing Recycling in B.C.

Extended Producer Responsibility Five-Year Action Plan

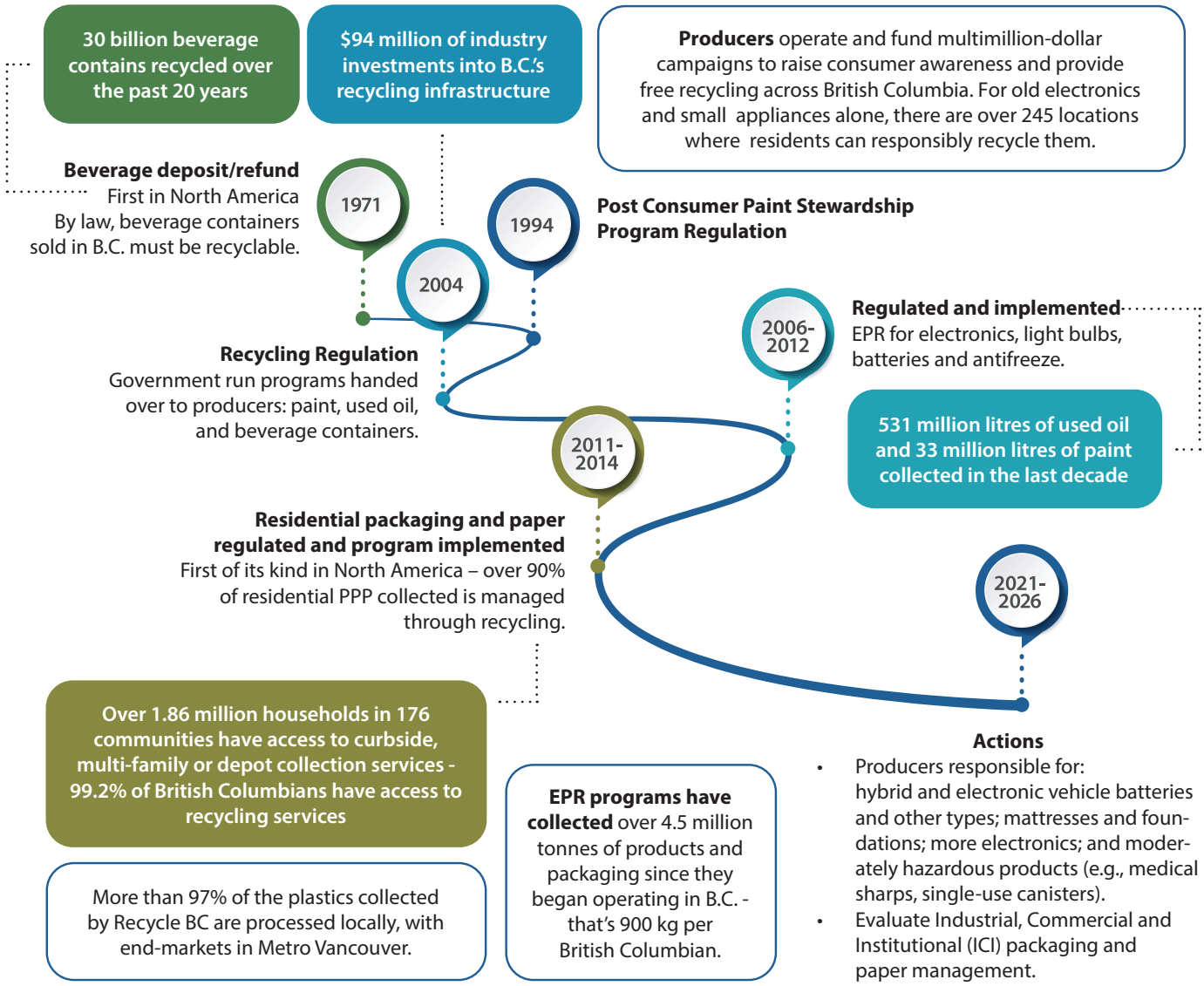
2021-2026

Introduction

Consumer choice can be powerful. It determines the design, durability and cost of a product, and increasingly it determines what happens to a product once it is no longer needed – finding alternatives to throwing it away, a departure from the traditional "take-make-waste" economy.

Over the last 50 years, British Columbia has been building a better way to deal with waste. The public has called for governments and producers to work together to reduce the impacts from waste on the environment and the health of our communities. This call to action has created provincewide recycling programs and a deposit and refund system, under an initiative where companies take responsibility for the full cost of a product called "Extended Producer Responsibility" (EPR). The EPR initiative responds to the consumer's desire to reduce or eliminate waste, and the producer's desire to demonstrate a clear commitment to stewardship of their products.

B.C.'s programs have not only continued to collect the same wide variety of packaging and plastics when the global market makes recycling these items unattractive, but are now expanding the items we collect while continuing to ensure they are recycled to the same high standard. B.C.'s EPR initiative requires all producers to track their material and the way it is processed, which must be verified by an independent auditor and the results annually reported to the ministry and posted publicly. This provides the necessary assurance that materials are not improperly disposed of and/or sent abroad for possible recycling.



Since 2004, B.C. has regulated the most packaging and products in Canada through EPR under the Recycling Regulation (the regulation). Residential packaging and paper, beverage containers, along with a wide and diverse range of other products (e.g., numerous electronics, light bulbs, tires, automotive oil, antifreeze, paint, etc.) are managed by producers. In one year alone, approximately 315,000 tonnes of plastics, such as those in electronics, beverage containers and other packaging, are captured in B.C.'s EPR programs.

B.C.'s EPR Policy Approach

- Results in less waste in landfills and the environment.
- Ensures convenient, provincewide collection services.
- Reduces consumer confusion and increases participation.
- Requires safe management and higher rates of recycling.
- Producers are responsible for recycling, including the costs, which promotes the design and use of more easily recyclable packaging and products.

EPR requires producers (manufacturers, distributors and retailers) of designated products to take full responsibility for the lifecycle of their products, including collection and recycling. This shifts the responsibility from local and Indigenous governments and taxpayers to the producers and consumers of packaging, paper and products.

B.C.'s EPR initiative supports consumers to make the right choice with end-of-life packaging and products by making curbside and drop-off recycling services widely available at no charge. Producers build the end-of-life costs into the purchase price structure for products and take responsibility in terms of the overall management of a recycling program. This makes it easier for consumers to fulfill their stewardship values for clean communities and protection of the environment.

The success of the EPR program can be measured in both environmental and economic terms. Reuse, recycling and remanufacturing creates more jobs than waste disposal, and supports a circular economy through material reuse and resource-efficiencies:

- A study released in 2016 of B.C.'s EPR system found that in a single year, B.C.'s EPR programs recovered $46 million worth of materials and reduced greenhouse gas emissions by over 200,000 tonnes (CO_2e).
- As a result of EPR regulation for residential packaging and paper alone, recycling businesses have invested over $45 million into B.C.'s recycling infrastructure – ensuring not only more packaging and paper is processed locally, but more jobs stay in B.C. as well.

B.C.'s EPR programs collectively generate an estimated $500 million annually to operate recycling programs and the beverage container deposit-refund system that ensures British Columbians have free and convenient access to recycling services.

Photo credit: Tire Stewardship B.C.

41 million tires recycled in the last 14 years - many used as a rubberized surface in new playgrounds through EPR program community grants.

Moving Forward – focusing on priorities

The priority actions outlined in this plan are among the most important and immediate actions B.C. must take to advance as a leader in EPR and waste prevention.

B.C. is now expanding the categories of products in the EPR initiative to include:

- Hybrid and electric vehicle batteries and other battery types.
- Mattresses and foundations.
- Compressed canisters, such as single-use camping fuel and fire extinguishers.
- Medical sharps used by people at home.
- Emerging electronics and more moderately hazardous products by clarifying product categories.

More Producers Taking Responsibility

Producers will be responsible for implementing, funding and managing recycling programs for newly added products. A phased implementation based on the product's complexity will give producers the necessary time to establish comprehensive management systems, and submit EPR program plans outlining their operations and performance targets to the ministry for approval. This operational decision making gives producers the flexibility to find the most efficient and innovative ways to meet regulated outcomes – making recycling more accessible for consumers with provincewide collection networks, improving recycling practices, and supporting re-use and resource recovery.

Based on feedback from producers, stakeholders, Indigenous and environmental organizations, and the public, the ministry will work with producers to expand the EPR program to include the following products:

Action: Expanding to include hybrid and electric vehicle batteries and other battery types

- Most single-use and rechargeable batteries are already regulated and responsibly recycled. However, the rapid adoption of batteries in new products and applications, including everything from pet collars to golf carts, has led to some regulatory gaps.

- Comprehensive battery management will better safeguard workers from fire risks associated with improper disposal of batteries in the garbage, residential curbside recycling, or the scrap metal industry. The growing inconsistency between regulated and unregulated products also creates inequitable requirements for the producers of similar products. Streamlining the regulation will provide for better oversight and recovery outcomes.

Hybrid and electric vehicle batteries

- By 2040, all new light-duty cars and trucks sold in B.C. will be Zero Emission Vehicles. Unlike other vehicle components that are already regulated and responsibly managed by producers (including lead-acid batteries, tires, oil and antifreeze), a reliable provincewide system to safely repurpose and recycle hybrid and electric vehicle batteries will need to be developed.
- B.C.'s battery recycling sector is already familiar with processing electric vehicle batteries. As B.C. aims to implement the first EPR program for electric vehicle batteries in Canada, it is anticipated that a phased-in approach will support advancements in reuse and recycling, and establish B.C. as a leader in battery recovery and management.

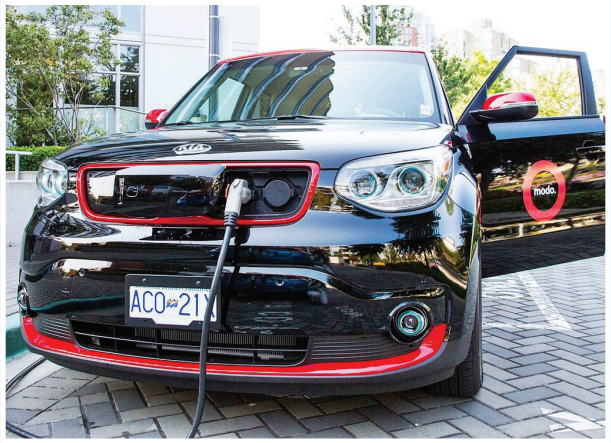


Photo credit: B.C. Ministry of Energy, Mines and Low Carbon Innovation

Action: Expanding to include mattresses and foundations

Mattresses and foundations are highly recyclable products, but at their end-of-life landfilling is currently the only option in some parts of the province, and there is often a drop-off recycling fee where recycling services are available. A formalized provincewide EPR program will help British Columbians by eliminating the financial and accessibility barriers that are preventing many from being able to recycle their used mattresses. These barriers cause unnecessary disposal and lead to high rates of illegal dumping in alleyways and wilderness areas. In Metro Vancouver alone, approximately 10,000 mattresses are abandoned each year, costing municipalities up to $1.5 million to manage.

The feedback we received shows that EPR for mattresses is a priority for local governments, Indigenous organizations and members of the public. The ministry plans to regulate mattresses and foundations in 2023, with implementation to follow–making B.C. the first province in Canada to establish an EPR program for mattresses.

Though the consultation showed a lot of support for regulating mattresses, we also heard there are some concerns and other key factors that need to be considered, such as:

- Prioritizing safe handling practices for front-line staff from bed bugs, mold and moisture.
- The complex challenges given the different generation sources for mattresses, such as from residential and commercial sectors.

- Consideration of existing reuse and recycling systems in an EPR approach. For example, mattresses are already recycled in some communities; gently used mattresses are often donated to charities and non-profits; and B.C. recyclers have already invested in infrastructure and local processing capacity.
- B.C. retailers need to remain competitive, and the majority already have mattress recovery programs that need to be considered.

Action: Expanding to include moderately hazardous products

Making producers responsible for the products they sell has been demonstrated to drive proper management and responsible recycling, and this level of oversight and diligence is needed for more moderately hazardous items.

Feedback on a wide range of moderately hazardous products varied in some cases, but generally the ministry heard that certain products are consistently showing up for disposal in large volumes throughout British Columbia. These are very costly to manage and can be improperly disposed into the blue box or waste stream, posing serious safety risks to collectors and processors. These include compressed canisters, such as single-use fuel canisters and fire extinguishers, medical sharps and batteries.

Compressed canisters and fire extinguishers

- EPR will support B.C. businesses and technicians operating provincewide that safely remove residual gas from canisters, which can be collected to be used again or safely disposed depending on the gas, with the container itself being recycled.

Keeping Mattresses Out of our Landfills

Photo credit: Carston Arnold

It is estimated that regulating mattresses under a provincewide EPR approach will mean an additional 100,000 cubic meters of landfill space will be freed up every year. All those mattresses laid end to end would stretch half the length of Vancouver Island.

Making Camping Greener

Photo credit: BC Parks

BC Parks hosted three million campers this summer with most needing to recycle empty single-use fuel canisters. By regulating these canisters, free drop-off locations will be provided throughout B.C.

Medical sharps

- Producers are already operating a voluntary collection system for residents to safely return medical sharps. Building on this, regulation will ensure more comprehensive program delivery, in which producers will be required to make consumers aware of safe disposal practices to ensure public and worker safety while also providing greater access to collection locations across the province – both of which will help to reduce instances of dangerous disposal in public spaces, residential curbside recycling and garbage.

Action: Expanding product categories through broader product definitions

We know that we must both expand and accelerate our action on recycling and preventing waste. While we work at adding new products to the regulation, we will also continue to work on redefining the existing product categories for electronics and moderately hazardous products. Our focus will be on broader, more generalized definitions as opposed to product-specific lists, with the intention to capture most products, including new ones that enter the marketplace in the future. This change will create greater certainty for producers and regulators to plan for more material recovery and recycling. This will also ensure new electronics and moderately hazardous products are easy to identify under the program–reducing confusion for consumers, retailers and collection facility staff alike.

Phased Approach for Packaging and Paper from the Industrial, Commercial and Institutional (ICI) Sector

Action: Evaluating opportunities and policy options for ICI materials

In 2014, B.C. led the nation by being the first province to make producers fully responsible for managing residential packaging and paper products. Today, producers successfully operate an efficient provincewide recycling system that collects and manages over 186,000 tonnes of material each year. Most materials are collected through curbside programs, from multi-family residences, or a network of more than 200 recycling depots across British Columbia.

However, packaging and paper products beyond the residential stream are not regulated, and are independently managed as waste or through recycling. These products are found in office buildings, warehouses, stadiums, grocery stores and food services, institutions, and agricultural applications. Collectively, they are referred to as the Industrial, Commercial and Institutional (ICI) sector.

Stakeholders and key partners have identified the ICI sector as a large contributor to overall waste in the province, and expressed a desire to expand EPR to include ICI-generated waste and recyclables. For example, Metro Vancouver alone reported 95,000 tonnes of plastic and paper were landfilled in 2020 by commercial and institutional businesses and organizations in the region. Rural communities with limited services and market accessibility report that considerable amounts of packaging from the ICI sector is still landfilled. However, feedback from stakeholders on this product type has varied significantly, confirming the ICI sector is complex and requires a measured, phased approach.

The first step is to better understand how ICI material is diverted from landfills and the recycling rates for the broad range of material types generated from this sector. There are many factors to consider, such as the accessibility and cost to recycle in rural and remote communities, the types and quantities of recyclable materials being generated, and contamination levels of the materials. To that

end, during the first year of the plan, the ministry will support data collection and research to better understand the management of packaging and paper in the ICI sector. The results will be used to determine a policy approach to manage ICI materials that drives the best environmental outcomes, considers the management systems already in place, and supports a circular economy.

Contributing to the Circular Economy

Recycling is a key component to support a circular economy
Unlike waste management, where local and Indigenous governments are typically responsible for providing collection services to their residents (think garbage), under EPR in B.C. the producers of products co-ordinate and operate comprehensive, provincewide recycling systems that keep materials in use. These systems support one of the contributing key elements that helps drive a circular economy.

Circular economy is an approach that maximizes value and eliminates waste by improving, and in some cases transforming, how goods and services are designed, manufactured and used. It touches on everything from material to business strategy to the configuration of regulatory frameworks, incentives, and markets.[1]

Taking action on plastic waste and marine debris
Recognizing that British Columbians want action on waste prevention, the 2019 CleanBC Plastics Action Plan engagement process gathered valuable feedback on new policy opportunities and regulatory amendments to address plastic waste. This led to action on a number of interconnected initiatives to support B.C.'s circular economy, preventing waste in the first place and expanding recycling and recovery. This will keep waste out of the natural environment, off the streets of our communities, and out of our lakes, rivers and shorelines – while reducing the amount that ends up in the landfill.

The Recycling Council of BC

With financial support from the Province, the Recycling Council of BC (RCBC) is B.C.'s most comprehensive single-source of recycling information.

Their 1-800 Recycling Hotline and Recyclepedia app has the answers people need about how and where to recycle and safe disposal options. In 2020 alone, the organization answered over 247,000 questions on recycling, reuse, and general waste prevention.

- *B.C. is a partner of the* Canada Plastics Pact – Collaborating with industry, government and non-profit organizations from across the entire plastics sector to address plastic waste, keeping it in the economy and out of the environment.
- *B.C. is phasing out single-use plastics and working with all levels of government*–The Province recently gave municipalities throughout B.C. the authority under the Community Charter to ban plastic bags and certain single-use plastics without the need for ministerial approval, making it easier to prevent plastics from polluting their communities. B.C. is also actively involved in the development of a Canada-Wide Strategy and Action Plan on Zero Plastic Waste. The Province continues to develop a legal framework that could allow the province to ban single-use and plastic items provincewide.

1 Circular economy as defined by Canada's Circular Economy Lab

- B.C.'s *Clean Coast, Clean Waters Initiative* - A collaboration of tourism and nonprofit sectors working with Indigenous nations; the initiative funds projects to remove marine debris and plastics from B.C.'s shorelines, maximizing the amount of material reused and recycled.
- The *CleanBC Plastics Action Fund* - Launched in 2020 to support B.C.-based innovators and companies to reduce the use of virgin plastics and make better use of post-consumer recycled plastic in manufacturing processes.

Furthering B.C.'s position as a leader in EPR

- *EPR is a critical component to address single-use plastics recovery and recycling* - The ministry made regulatory changes in 2020 that help modernize the Recycling Regulation and will see all beverage containers part of the deposit-refund system in 2022. This includes milk containers, which will lead to an estimated 20 to 40 million more milk containers being recycled annually. Single-use items and more packaging products such as boxes of sandwich bags will also be collected under the regulation's packaging and paper products category as of 2023.
- *Taking our success national* - With many other provinces now embarking on EPR, there is a desire by all involved to support national EPR consistency, such as priority products and reporting. We will continue working with other jurisdictions on common approaches to EPR that will bring greater consistency and better outcomes.
- *Focus on Indigenous communities* - B.C.'s EPR producers and their agencies have created the First Nations Recycling Initiative to ensure these smaller and often remote communities can participate.

Recycling in Remote and Indigenous Communities

Photo credit: ElectoRecycle

The First Nations Recycling Initiative (FNRI) is a collective of nine B.C. EPR programs working with Indigenous communities to support recycling in communities throughout British Columbia. A First Nations Field Services Specialist works to raise awareness, and offer resources to support recycling, and community collection events. To increase recycling access across B.C., there is also collaboration with Indigenous Services Canada (ISC) and the Indigenous Zero Waste Technical Advisory Group. In 2020, 44 Indigenous nations participated in the RecycleBC program for residential packaging and paper.

Accessible only by water, Ahousaht First Nation continues to be the most remote collection event for small appliances. The community has also partnered with RecycleBC to collect residential packaging and paper through curbside and depot collection. Working with community recycling partners is key to their success.

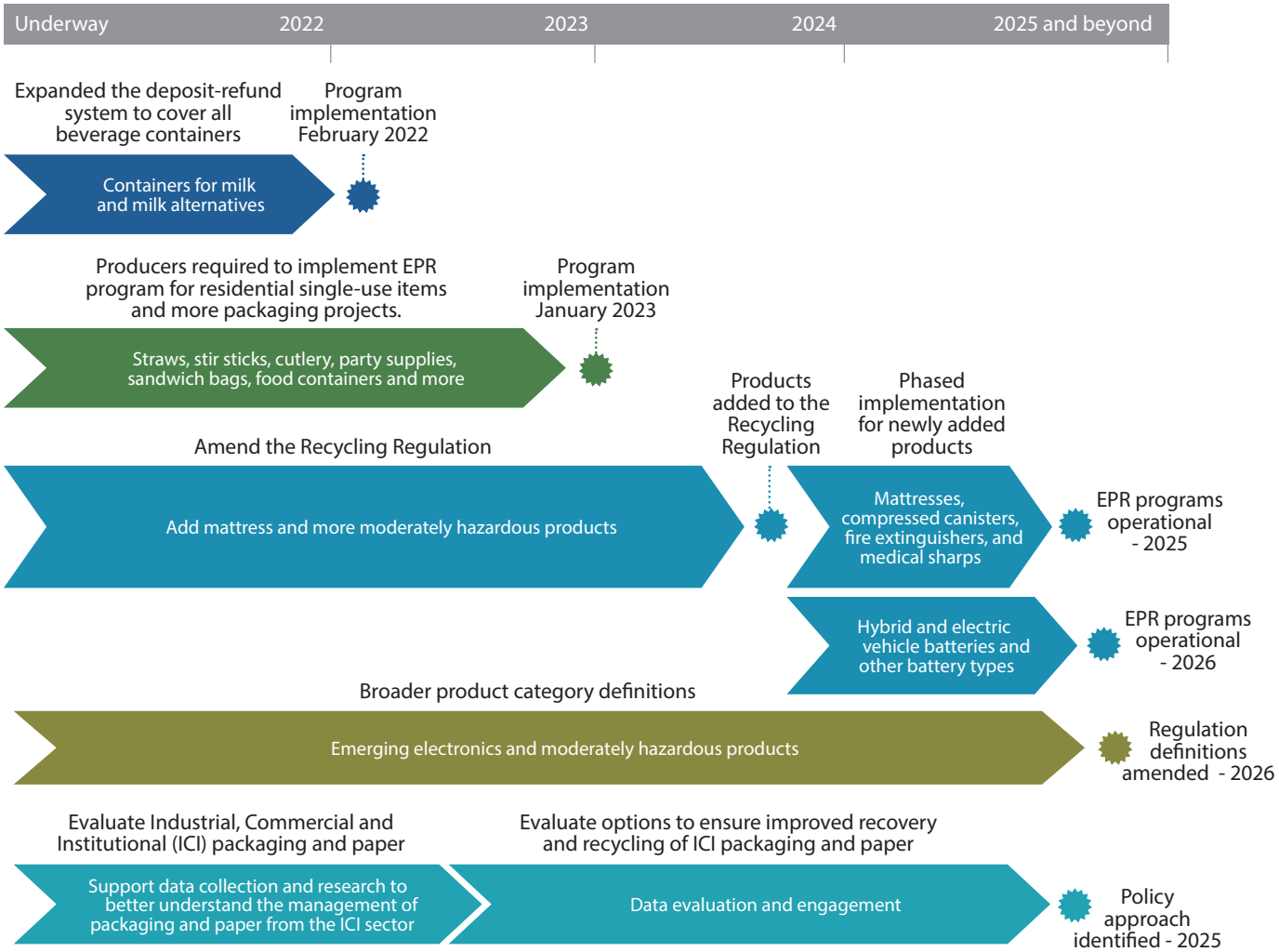
- *Responsible recycling is supported by B.C. businesses and workers* - The materials collected through our vast depot and curbside network are transported to material processing facilities in B.C. Throughout this process, producers ensure the workers handling and processing their materials are kept safe, and the environment protected by adhering to high standards.

The Province is committed to keeping pollution out of our oceans and waterways, reducing waste, and incentivizing a circular supply chain for plastics. Meeting these goals requires a determined effort to increase recycling and recovery of materials. B.C. was an early supporter of implementing waste-reduction policies and continues to lead the nation with a robust and successful EPR initiative.

To date, EPR programs have collected over 4.5 million tonnes of packaging and products since they began operating in B.C. At the individual level, British Columbians disposed of an average of 501 kg of municipal solid waste per person in 2019 – a reduction of 66 kilograms per person since 2012. This downward trend is positive, but without more action, B.C.'s landfills will run out of space.

Adding more product categories under EPR and increasing resource recovery is critical to help shift the way most people view waste – from something that is meant to be used and then disposed of to reclaiming and reusing materials again and again as part of a growing circular economy.

Extended Producer Responsibility Implementation Timeline



We recognize the need for timely action. We have a pathway to implement initiatives with our partners and we will accelerate timelines if we can.