

Notice of Meeting and Meeting Agenda Environmental Services Committee

Wednesday, November 23, 2016

9:30 AM

6th Floor Boardroom

DIRECTORS: V. Derman (Chair), R. Windsor (Vice Chair), R. Atwell, D. Blackwell, C. Hamilton, W. McIntyre, J. Ranns, M. Tait, K. Williams, B. Desjardins (Board Chair, ex officio)

1. Approval of Agenda

2. Adoption of Minutes

- 2.1. [16-1112](#) Adoption of the October 26, 2016, Minutes of the Environmental Services Committee

Recommendation: That the minutes of the October 26, 2016, meeting of the Environmental Services Committee be adopted.

Attachments: [2016-10-26 Minutes Environmental Services Committee](#)

3. Chair's Remarks

4. Presentations/Delegations

5. Committee Business

- 5.1. [16-1022](#) Natural Asset Management (Natural Capital)

Recommendation: That the Environmental Services Committee recommend to the Capital Regional District Board:
That this report on Natural Asset Management (Natural Capital) be received for information.

Attachments: [Staff Report: Natural Asset Management \(Natural Capital\)](#)

- 5.2. [16-1092](#) BC Recycling Regulation - Scope of Packaging and Printed Paper Extended Producer Responsibility Program

Recommendation: That the Environmental Services Committee receive this report for information

Attachments: [Staff Report: BC Recycling Reg - Scope of Packaging & Printed Paper EPR](#)

- 5.3. [16-1093](#) General Manager's Report

Recommendation: That the Environmental Services Committee receive the General Manager's Report for information.

Attachments: [Staff Report: General Manager's Report](#)

6. New Business

7. Adjournment

Next Meeting: To Be Announced

Meeting Minutes

Environmental Services Committee

Wednesday, October 26, 2016

9:30 AM

6th Floor Boardroom

PRESENT

DIRECTORS: V. Derman (Chair), R. Windsor (Vice Chair), D. Blackwell, C. Day (for C. Hamilton), J. Ranns, M. Tait, K. Williams

STAFF: L. Hutcheson, General Manager, Parks and Environmental Services; J. Frederick, Manager, Project Engineering, Environmental Engineering; H. Gibson, Senior Manager, Environmental Partnerships; G. Harris, Senior Manager, Environmental Protection; R. Smith, Senior Manager, Environmental Resource Management; N. More, Committee Clerk (Recorder)

ABSENT: Directors R. Atwell, W. McIntyre, B. Desjardins (Board Chair, ex officio)

The meeting was called to order at 9:31 a.m.

1. Approval of Agenda

**MOVED by Director Williams, SECONDED by Director Blackwell,
That the agenda be approved.**

CARRIED

2. Adoption of Minutes

- 2.1. [16-1021](#) Approval of the July 27, 2016, Minutes of the Environmental Services Committee

**MOVED by Alternate Director Day, SECONDED by Director Williams,
That the July 27, 2016, minutes of the Environmental Services Committee be adopted.**

CARRIED

3. Chair's Remarks

Chair Derman remarked a report on recycling in the region and in the retail sector to come forward at the next meeting and that the issue of "natural capital" would be on the next agenda. He remarked on climate change as a topic for the upcoming Forum of Councils. He remarked on the way space is shared in the city of Amsterdam between different transportation modes.

4. Presentations/Delegations

There were none.

5. Committee Business

5.1. [16-1024](#) 2017 Service Plans Review Process

L. Hutcheson provided highlights of the staff report and the service plan summaries and provided clarification for the Committee on topics covered by the four service plans of:

- Environmental Resource Management
- Environmental Partnerships
- Environmental Protection
- Environmental Planning & Engineering

**MOVED by Director Windsor, SECONDED by Director Tait,
That it be recommended to the Capital Regional District Board:
That the attached service plans be approved as presented, and direct staff to prepare the 2017 Financial Plan in accordance with the approved service plan.
CARRIED**

5.2. [16-1009](#) Security Services for Hartland Landfill - Award of Contract 16-1880

**MOVED by Director Blackwell, SECONDED by Director Tait,
That it be recommended to the Capital Regional District Board:
That Contract 16-1880, Security Services for Hartland Landfill, be awarded to Securigard Services Limited for a period of 5 years, with the first-year tendered amount being 131,200.20 (excluding GST).
CARRIED**

5.3. [16-1023](#) Hartland Landfilling Operations - Award of Contract 16-1871

**MOVED by Director Blackwell, SECONDED by Director Windsor,
That it be recommended to the Capital Regional District Board:
1. That Contract 16-1871, Hartland Landfilling Operations January 2017 to June 2020, be awarded to Chew Excavating in the amount of \$1,571,042.55 for the first year (2017) of a 3.5-year term, and that payment of hourly rates be adjusted in 2018, 2019 and 2020 based on the CPI; and
2. That costs be charged to the 2017, 2018, 2019 and 2020 solid waste operating budgets.
CARRIED**

5.4. [16-1029](#) Environmental Resource Management - 2015 Annual Report

L. Hutcheson provided highlights of the report and clarified that leachate is contained prior to release into the leachate line leading to sewer outfalls.

**MOVED by Director Blackwell, SECONDED by Director Williams,
That it be recommended to the Capital Regional District Board:
1. That the following draft reports be approved:
a) Environmental Resource Management 2015 Annual Report
b) Hartland Landfill Operating & Environmental Monitoring 2015 Annual Report;
and
2. That the annual report fulfilling regulatory requirements be forwarded to the BC Ministry of Environment.
CARRIED**

5.5. [16-1018](#) Capital Regional District Regional Climate Action Strategy

L. Hutcheson introduced the report and G. Harris provided highlights of the climate action strategy. Staff provided clarification on the severance of the climate action strategy from the Regional Growth Strategy.

Chair Derman remarked on climate action and the Forum of Councils process. He handed the Committee a copy of his thoughts on items for the Forum of Councils agenda.

The Committee discussed the following topics:

- urgency of information on climate change
- the data on emissions in the strategy report
- recognition of carbon sinks provided by retention of forest cover
- 2008 Charter on Climate Change focus on carbon emission reduction
- next phase to focus on adaptation, including carbon balance
- comparing potential sea-level rise maps to the Natural Areas Atlas
- mention of a CRD transportation service in the strategy
- inclusion of the term natural capital in the glossaries

The main motion was put on the table, as well as an amendment. Discussion points on the amendment included: the proposed CRD Transportation Service would go through a process, including municipal consultations; a transportation service is a goal of the CRD Board and needs to be part of the conversation at the Forum of Councils.

On the main motion after the amendment was defeated, staff clarified that the speakers engaged for the Forum of Councils have been asked to incorporate pressing concerns about climate change and adaptation raised by the Committee, such as urgency.

**MOVED by Director Windsor, SECONDED by Director Blackwell,
That it be recommended to the Capital Regional District Board:
That the draft Regional Climate Action Strategy be received for information and forwarded for further discussion to the Forum of Councils scheduled for November 19, 2016, with the addition of "natural capital" to the glossary (Appendix C).**

**MOVED by Director Day, SECONDED by Director Ranns,
That reference to the establishment of a CRD Transportation Service
be deleted from the strategy.**

DEFEATED

OPPOSED Blackwell, Derman, Ranns, Tait, Williams, Windsor

**MOVED by Director Windsor, SECONDED by Director Blackwell,
That it be recommended to the Capital Regional District Board:
That the draft Regional Climate Action Strategy be received for information and forwarded for further discussion to the Forum of Councils scheduled for November 19, 2016, with the addition of "natural capital" to the glossary (Appendix C).**

CARRIED

5.6. [16-1016](#) Climate Action Program - 2016 Update

G. Harris provided highlights of the report.

**MOVED by Director Windsor, SECONDED by Director Blackwell,
That the Environmental Services Committee receive this report for information.
CARRIED**

5.7. [16-1028](#) General Manager's Report

L. Hutcheson provided highlights of the report.

**MOVED by Director Windsor, SECONDED by Director Tait,
That the Environmental Services Committee receive the General Manager's
Report for information.
CARRIED**

6. Correspondence

6.1. [16-840](#) Correspondence between Province of BC and CRD Chair Regarding Climate Action, June 13 and July 26, 2016

**MOVED by Director Windsor, SECONDED by Director Blackwell,
That the following items of correspondence be received for information.
1. E-mail from Minister of Environment Mary Polak to Chair Barbara Desjardins re
Climate Action Leadership Required (July 26, 2016)
2. Letter from Chair Barbara Desjardins to The Honourable Christy Clark re
Climate Action Leadership Required (June 13, 2016)
CARRIED**

6. New Business

There was none.

7. Adjournment

**MOVED by Director Windsor, SECONDED by Director Tait,
That the meeting be adjourned at 11:01 a.m.
CARRIED**

CHAIR

RECORDER

**REPORT TO ENVIRONMENTAL SERVICES COMMITTEE
MEETING OF WEDNESDAY, NOVEMBER 23, 2016**

SUBJECT **Natural Asset Management (Natural Capital)**

ISSUE

To provide the Environmental Services Committee with background information related to Natural Asset Management (Natural Capital).

BACKGROUND

Sustainable Service Delivery ensures that current community service needs, and how those services are delivered (in a socially, economically and environmentally responsible manner), do not compromise the ability of future generations to meet their own needs. Under the BC Framework for Asset Management for Sustainable Service Delivery, Asset Management is defined as “an integrated process, bringing together skills, expertise, and activities of people with information about a community’s physical assets; and finances so that informed decisions can be made supporting Sustainable Service Delivery.” Assets are physical infrastructure (e.g., water and wastewater systems, drainage and flood protection systems, transportation systems, civic facilities, parks and fleet) and can also include natural features and the ecological functions they provide (e.g., natural infiltration of stormwater; the cleaning and polishing capacity of wetlands to produce clean water). Natural Asset Management integrates an understanding of natural systems and the functions they provide into traditional service delivery.

Increased alignment of asset management with integrated watershed management leads to improvements in watershed health. Examples are being documented across many jurisdictions. New York City invested \$1.5 billion USD in watershed protection in its Catskills watershed, and has saved \$6 billion in capital costs and \$300 million in annual operating costs for a treatment plant that it would otherwise have required. Research following Hurricane Sandy showed that healthy marshes, beaches and dunes, oyster reefs and floodplains provided important natural barriers against storm surges and flooding risks, making them an effective complement to, or in some cases a replacement for, engineered infrastructure.

Asset management business processes are increasingly used to manage aging infrastructure and service level expectations, and are increasingly becoming a requirement for grant programs such as federal gas tax funding. In May 2014, Canada, the Province of BC and the Union of BC Municipalities (UBCM) signed the renewed Gas Tax Agreement for a 10-year term. The Agreement identifies that local governments will be required to meet asset management commitments as established by the Partnership Committee. These asset management commitments are aligned with Asset Management BC’s *Asset Management for Sustainable Service Delivery: A BC Framework*.

The Framework links directly to, and provides support and guidance in meeting, the asset management requirements under the Gas Tax Fund. Stakeholders such as the Province, UBCM, Local Government Management Association, Government Finance Officers Association, Public

Works Association, Planning Institute of BC, BC Water and Waste Association, and others, have endorsed it as the framework for asset management in BC.

Municipalities are starting to recognize the important role the natural environment plays in regional infrastructure systems. Strategies to conserve and enhance natural capital by measuring and managing natural capital within existing asset and financial management processes are starting to emerge. The Town of Gibsons is the first municipality in North America to develop a natural asset policy. The policy explicitly defines and recognizes natural assets as an asset class and creates specific obligations to operate, maintain and replace natural assets alongside traditional capital assets, including having natural asset management strategies and financial resources to maintain them. However, under the Public Sector Accounting Board (PSAB)'s, recognition criteria for tangible assets, natural capital resources are not recognized on the statement of financial position. While there has been growing support to include such natural resources in the definition of tangible assets, there is no timeline from PSAB on development or implementation of a natural capital policy.

Asset Management BC and UBCM are also starting to introduce the concept of natural capital in an asset management context through the Municipal Natural Asset Initiative. UBCM announced recently that "Gibsons is the first of several local governments engaged with the Municipal Natural Asset Initiative, a project bringing together asset management, financial planning and ecological protection."

Within the Capital Regional District (CRD), staff initiated a cross-departmental discussion in March 2016 that identified a number of current projects that have a link to natural capital. The group put forward a recommendation to discuss the Municipal Natural Asset Initiative at the Asset Management Steering Committee to promote awareness of the initiative across the organization. The CRD Board has formally expressed its support for the partnership and this workshop was identified as a deliverable from that support. Finally, Finance staff are working on a response to the July 6, 2016 Finance Committee request for more information on what is required to deliver certain tasks under Natural Asset Management.

ENVIRONMENTAL IMPLICATIONS

Natural Asset Management integrates land use, infrastructure servicing, financial and ecological planning. Emphasis is on the levels-of-service that assets provide and what is affordable over time. A logical management unit for natural capital is the watershed, a boundary within which all water drains to a common point. The *BC Water Sustainability Act* establishes expectations and direction for adapting to a changing climate and recognizes the connection between land use actions and the implications for the water cycle and watershed sustainability. There is strong and growing evidence that natural assets such as forests, rivers, wetlands and riparian areas can provide municipalities with services equivalent to those from engineered assets. Furthermore, natural assets can provide these services at lower cost than engineered alternatives, as they often have both lower capital costs and operating costs.

FINANCIAL IMPLICATIONS

Inclusion of natural asset management into business practices has the potential to reduce capital, operating and maintenance costs of service delivery by local and regional governments. In some

cases, natural systems can replace infrastructure at a lower upfront cost with lower operation and maintenance costs and longer service life. However, at this point, there are no established PSAB accounting standards or costing valuation methods in place.

SOCIAL IMPLICATIONS

The inclusion of asset management, and specifically natural asset management, moves service delivery closer to the goal of sustainability where the needs of current communities are met without compromising the ability of future generations to meet their needs.

NEXT STEPS

Some work in support of natural asset management is planned or underway:

- Integrated Watershed Management staff will co-host a sustainable service delivery workshop in early 2017 with the Partnership for Watershed Sustainability in BC.
- Staff will continue to work to support natural system mapping (through updating of CRD watershed mapping and supporting the Habitat Acquisition Trust’s Land Cover Mapping project) and the completion of a set of low-impact guidelines for green infrastructure.

CONCLUSIONS

Natural Asset Management is an emerging component of asset management that meets the larger goal of sustainable service delivery. Consideration of natural asset management is becoming a requirement of funding requests from senior levels of government as it becomes more relevant with aging infrastructure, climate change and our understanding of the potential of natural systems to support resilient communities. CRD staff have initiated actions around natural asset management within our service delivery.

RECOMMENDATION

That the Environmental Services Committee recommend to the Capital Regional District Board:

That this report on Natural Asset Management (Natural Capital) be received for information.

Submitted by:	Glenn Harris, Ph.D., R.P.Bio., Senior Manager, Environmental Protection
Concurrence:	Larisa Hutcheson, P.Eng., General Manager, Parks & Environmental Services
Concurrence:	Nelson Chan, MBA, CPA, CMA, Chief Financial Officer
Concurrence:	Robert Lapham, MCIP, RPP, Chief Administrative Officer

DG:cam

**REPORT TO ENVIRONMENTAL SERVICES COMMITTEE
MEETING OF WEDNESDAY, NOVEMBER 23, 2016**

SUBJECT **BC Recycling Regulation – Scope of Packaging and Printed Paper Extended Producer Responsibility Program**

ISSUE

To provide background information on the scope of the Extended Producer Responsibility program for packaging and printed paper under the BC Recycling Regulation.

BACKGROUND

In 2004, the Province of British Columbia enacted the BC Recycling Regulation (BCRR) to provide a single, results-based framework for Extended Producer Responsibility (EPR). EPR holds producers responsible for managing their products and associated packaging at end of life. The BCRR currently includes 14 product categories.

In 2011, the BCRR was amended to include packaging and printed paper (PPP), effective May 2014. The majority of PPP products were already accepted in local government residential collection programs, including the Capital Region District's (CRD) blue box program. The regulation stipulates that PPP producers must adequately provide for the collection of PPP from:

- residential premises, including apartments and condominiums; and
- municipal property that is not industrial, commercial or institutional property (also referred to as streetscape)

Unlike other EPR programs, the regulation for PPP excludes products from the industrial, commercial and institutional (ICI) sector.

In response to the pending PPP regulation, the Union of British Columbia Municipalities (UBCM) formed a working group in 2012 to represent the interests of local governments, which had traditionally been involved in service delivery for most of the materials. The nine-member working group prepared a policy paper that was endorsed at the annual UBCM convention in Victoria in September 2012. One of the key recommendations in the policy paper was to extend the PPP program to the industrial, commercial and institutional (ICI) sector within three years.

PPP producers formed a not-for-profit agency called Multi-Material BC (MMBC). MMBC submitted a stewardship plan for the management of residential PPP to the Ministry of Environment, which was approved. The plan offers different financial incentives for the collection of residential PPP at the curb, from multi-family dwellings and at depots. The plan also stipulates different collection methods, such as separate collection of glass containers at the curb and collection of residential film plastics and Styrofoam at depots only. The CRD entered into funding agreements with MMBC for curbside and depot collection of PPP. The CRD did not accept multi-family incentives, as buildings with five or more units in the region are serviced by private haulers. The new residential EPR program started on May 19, 2014.

Ministry of Environment staff have identified the implementation of the residential PPP program as a priority, with a focus on continuous improvement. They have set no timeline for extending the PPP program to the ICI sector.

CONCLUSION

In 2011, the BC Recycling Regulation was amended to include packaging and printed paper (PPP) from the residential sector. Unlike other Extended Producer Responsibility programs, PPP excludes products from the industrial, commercial and institutional (ICI) sector. The Ministry of Environment is focusing on continuous improvement of the residential PPP program and has not identified any timeline for extending the program to the ICI sector.

RECOMMENDATION

That the Environmental Services Committee receive this report for information.

Submitted by:	Russ Smith, Senior Manager, Environmental Resource Management
Concurrence:	Larisa Hutcheson, P.Eng., General Manager, Parks & Environmental Services
Concurrence:	Robert Lapham, MCIP, RPP, Chief Administrative Officer

AB:ac



**REPORT TO ENVIRONMENTAL SERVICES COMMITTEE
MEETING OF WEDNESDAY, NOVEMBER 23, 2016**

SUBJECT General Manager's Report

ISSUE

To update the Environmental Services Committee on current initiatives and issues.

BACKGROUND

CRD Medication Return Pilot Proposal – Applying Labels to Promote the BC Medications Return Program on Prescription Containers

The College of Pharmacists of British Columbia is the provincial regulator for the placement of labels on prescription containers. In 2014, the Environmental Services Committee directed staff to approach the College with a proposal for a pilot in the capital region to place labels on prescription containers encouraging the return of unused medications as part of the BC Medications Return Program.

The proposal was rejected by the College's Registration Committee for the following reasons:

- already too many labels on the containers
- information is not related to an immediate/direct patient issue
- logistically impossible to make mandatory

Environmental Partnerships continues to work with the BC Pharmacy Association and Health Products Stewardship Association to promote the BC Medications Return Program on social media, the CRD website, and by hosting outreach booths in pharmacies throughout the region.

RECOMMENDATION

That the Environmental Services Committee receive the General Manager's Report for information.

Submitted by:	Larisa Hutcheson, P.Eng., General Manager, Parks & Environmental Services
---------------	---

LH:dn