

## **AMENDED AGENDA**

REGULAR MEETING OF THE ADVISORY COMMITTEE ON ENVIRONMENTAL SUSTAINABILITY  
SERVICE AND RESOURCE CENTRE BOARD ROOM, 411 DUNSMUIR STREET  
WEDNESDAY, 2014-DEC-10, COMMENCING AT 4:30 P.M.

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CHAIR: COUNCILLOR DIANE BRENNAN

1. **CALL THE REGULAR MEETING OF THE ADVISORY COMMITTEE ON ENVIRONMENTAL SUSTAINABILITY TO ORDER:**

2. **INTRODUCTION OF LATE ITEMS:**

(a) Add Item 6 (a) i. Draft Vancouver Bird Strategy, including excerpt from pg. 15 regarding the predation and disturbance by domestic pets. Pg. 8.1

(b) Add Item 6 (a) ii. Tree Conservation and Carbon Neutral Appreciation. Pg. 8.2

3. **ADOPTION OF AGENDA:**

*(Motion required to adopt the agenda, as amended)*

4. **ADOPTION OF MINUTES:**

Minutes of the Regular Advisory Committee on Environmental Sustainability Meeting held Wednesday, 2014-NOV-12, at 4:39 p.m., in the Service and Resource Centre Board Room. Pg. 3-5

*(Motion required to adopt minutes)*

5. **CHAIR'S REPORT:**

(a) Introduction of the new ACES representative for School District #68, Emil Bock, acting Energy Manager for SD68.

6. **STAFF REPORTS:**

(a) **Review of the 2014 Work Plan** Pg. 6-8  
**R. Lawrance, Environmental Planner**

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*Purpose: To provide ACES with an update and review of the 2014 Work Plan.*

- i. Draft Vancouver Bird Strategy Pg. 8.1

To be introduced by Committee Member Ted Perry.

[Note: The full version of this report is available at this link:  
<http://vancouver.ca/files/cov/vancouver-bird-strategy-draft-2014-09-01.pdf>]

- ii. Tree Conservation and Carbon Neutral Appreciation Pg. 8.2

To be introduced by Committee Member Glenda Hunter.

Staff Recommendation: That the Advisory Committee on Environmental Sustainability review and endorse the report to Council.

*(Motion required to adopt recommendation)*

- (b) **Update on the Revision of the City Habitat Atlas**  
**R. Lawrance, Environmental Planner**
- 

*Purpose: To provide ACES with an update.*

Staff Recommendation: That the Advisory Committee on Environmental Sustainability receive for information.

- (c) **Environmental Services Monthly Report** – November 2014 Pg. 9-10

7. **CORRESPONDENCE:**

- (a) Email regarding registration for the 12<sup>th</sup> Annual Air Quality and Health Workshop hosted by the BC Lung Association at the Harbourside Hotel in Vancouver, BC, on for 2015-MAR-25. Pg. 11-12

8. **NOTICE OF MOTION:**

9. **OTHER BUSINESS:**

*(Motion required to review other business)*

10. **QUESTION PERIOD:** *(Agenda Items Only)*

11. **ADJOURNMENT:**

## MINUTES

### REGULAR MEETING OF THE ADVISORY COMMITTEE ON ENVIRONMENTAL SUSTAINABILITY SERVICE AND RESOURCE CENTRE BOARD ROOM WEDNESDAY, 2014-NOV-12, AT 4:30 P.M.

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PRESENT: Councillor Diane Brennan, Chair

Members: Suzanne Andre (arrived 4:50 pm)  
Shelley Serebrin  
Glenda Hunter  
Anne Kerr  
Ted Perry  
Wally Wells

Regrets: Sheri DeBoer  
Jan Hastings  
Calvin Tant

Staff: Richard Harding, Director, Parks, Recreation and Environment  
Rob Lawrance, Environmental Planner  
Kevin Brydges, Environmental Bylaw Enforcement Officer  
Charlotte Davis, Manager of Sanitation, Recycling and Public  
Works Administration (departed 6:14pm)  
Jackie Farrell, Recording Secretary

1. CALL THE OPEN MEETING TO ORDER:

The Regular Meeting was called to order at 4:39 p.m.

2. INTRODUCTION OF LATE ITEMS:

- (a) Add Correspondence Item 8 (c) Article regarding a competition to generate innovative ideas to address Sea Level Rise concerns in Metro Vancouver.

3. ADOPTION OF AGENDA:

It was moved and seconded that the Agenda, as amended, be adopted. The motion carried unanimously.

4. ADOPTION OF MINUTES:

It was moved and seconded that the Minutes of the Regular Advisory Committee on Environmental Sustainability Meeting held Wednesday, 2014-OCT-08 at 4:33 p.m. in the Service and Resource Centre Board Room be adopted as circulated. The motion carried unanimously.

5. PRESENTATIONS:

- (a) Charlotte Davis, Manager of Sanitation, Recycling & Public Works Administration, gave a presentation regarding an overview of waste management and recycling in the Harbour City.

6. STAFF REPORTS:

- (a) Review of Climate Action Symposium held in the Shaw Auditorium

It was moved and seconded that the Advisory Committee on Environmental Sustainability recommend that Staff proceed with holding a meeting of community stakeholders from the Sustainability Action Plan process no later than January 2015 to plan out future opportunities to improve communication and awareness about Energy Efficiency and GHG reduction initiatives.

It was moved and seconded that the motion be amended to include the wording "...and implement energy efficiency..." The motion carried unanimously.

The vote was taken on the main motion as amended as follows:

"That the Advisory Committee on Environmental Sustainability recommend that Staff proceed with holding a meeting of community stakeholders from the Sustainability Action Plan process no later than January 2015 to plan future opportunities to improve communication and awareness and implement energy efficiency and GHG reduction initiatives."

The motion carried unanimously.

- (b) Parks, Recreation & Environment's Draft 2015 Marketing Plan

It was moved and seconded that ACES receive for information. The motion carried unanimously.

- (c) Update of the City of Nanaimo Habitat Atlas

It was moved and seconded that Staff proceed with an update and revision of the Habitat Atlas and work with ACES to provide advice and input on content and functionality. The motion carried unanimously.

- (d) Environmental Services Monthly Report – October 2014

7. CORRESPONDENCE:

- (a) Press Release regarding the opening of the SolaRoad, a road surface that converts sunlight into energy, located in Krommenie, Holland.
- (b) Report publication from the Suzuki Foundation regarding Protecting Your Community's Coastal Assets: Local Leadership in Marine Planning.

<http://www.davidsuzuki.org/publications/downloads/ProtectingYourCommunitiesCoastalAssets.pdf>

- (c) Article "Rise: An Ideas Competition Addressing Sea Level Rise" in regards to communities in Metro Vancouver

It was moved and seconded to add to the January agenda the issue of Sea Level Rise to discuss adding it to the ACES 2015 Work Plan. The motion carried unanimously.

8. OTHER BUSINESS:

- (a) Request to amend Animal Control Bylaw to include Cat Licensing presented to Council on 2014-NOV-03. The Chair, Councillor Brennan, gave a summary of the delegation's presentation to Council. Staff are currently drafting a report regarding the feasibility of the licensing and identification of cats and an amendment to the Animal Control Bylaw for a mandatory spay/neuter program.

9. ADJOURNMENT:

It was moved and seconded at 6:42 p.m. that the meeting adjourn. The motion carried unanimously.

CERTIFIED CORRECT:

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D. Brennan, Chair  
Advisory Committee on Environmental Sustainability

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R. Harding, Director  
Parks, Recreation and Environment

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ADVISORY COMMITTEE ON ENVIRONMENTAL SUSTAINABILITY  
 2014 WORK PLAN – WORKING COPY

2014 Work Plan			
Project / Issue	Purpose / Definition	Outcomes	Priority
Watercourse / Riparian Health	Watercourses and riparian areas are protected within the City of Nanaimo under Development Permit, the City's Zoning Bylaw and through provincial legislation ( <i>Riparian Areas Regulation</i> ). To complement this protection, more can be done to improve public awareness of the importance and values of our watercourses and riparian areas.	<ul style="list-style-type: none"> <li>Review Development Permit Area 1 (Watercourses) and 2 (Environmentally Sensitive Areas). Review and revise policy and guidelines with the intent to minimize the need to vary exiting watercourse setbacks and clarify the requirements to consider other ecological features and functions beyond those for fish values <b>Complete</b></li> <li>Provide advice in developing a public awareness and education program on watercourses and riparian areas in the city. <b>Underway and Ongoing</b></li> <li>Explore the feasibility of establishing a watercourse habitat compensation bank for Nanaimo. <b>Defer to 2015</b></li> <li>Explore ways to work developers on environmental stewardship opportunities. <b>Underway. Plant Salvage Program Pilot Program Started</b></li> <li>Provide input into establishing a performance measure for watercourses and riparian areas in the city under the "Balanced Scorecard." <b>Defer to 2015</b></li> <li>Contact UBCM about changes to the <i>Fisheries Act</i> and explore the need to present the issue at AVIC 2015 or UBCM. <b>No action taken</b></li> <li>Keep committee informed on staff initiative to update stormwater standards. <b>Ongoing. Will update in January 2015</b></li> </ul>	High

<b>Woodstoves / Burn it Smart Program</b>	Local residents with older wood stoves that produce an excessive amount of residential wood smoke are negatively contributing to the local environment, air quality and can impact local residents' health. An incentive to encourage homeowners to purchase more efficient woodstoves and "change-out" older models has been supported by the Province in the past, but future provincial funding is currently under review.	<ul style="list-style-type: none"> <li>Continue to work with the Province on funding the Woodstove Change-out Program for the fall of 2014 <i>Funding received. Program to begin on January 5<sup>th</sup>, 2015</i></li> <li>Enhance the Burn It Smart program <i>Review completed</i></li> <li>Review the regulatory options for managing smoke from woodstove appliances and report back to council with recommendations. <i>Report being prepared for January 2015</i></li> </ul>	
<b>Climate Action / Sustainability Action Plan</b>	The Community Sustainability Action Plan (CSAP) was adopted by Council in December 2012. The City's Official Community Plan (planNanaimo) has identified sustainability as its guiding principle. The goals that make up the OCP reflect the sustainable approach the community wishes to strive toward.	<ul style="list-style-type: none"> <li>Provide input and advice on the Realtor Energy Efficiency Program (REEP). <i>Program currently underway.</i></li> <li>Host an Environmental Forum <i>Completed. Climate Action Symposium held on October 18<sup>th</sup>.</i></li> <li>Coordinate and facilitate the implementation of the Community Sustainability Action Plan as opportunities arise. <i>Water Services completed work with BC Hydro / Fortis on incentive for Fall '14. Stakeholder meeting to be held by January 2015</i></li> </ul>	Ongoing
<b>Erosion and Sediment Control</b>	Development can create increased soil erosion in the course of construction and site manipulation. Erosion is often a long-term effect of a developed site as well. Soil exposed during clearing, grading and stockpiling can be easily transported onto nearby roads and watercourses. After development, the areas ability to absorb and retain surface runoff may be greatly reduced, increasing the erosion potential both on-site and downstream.	<ul style="list-style-type: none"> <li>Review the City's current policies, education, and training for staff and development applicants around erosion and sediment control <i>Presentation to ACES from Manager of Engineering and Subdivision on current City Practice</i></li> <li>Report back to Council on any recommended changes <i>Information report to ACES completed. Further discussion and direction needed.</i></li> </ul>	Medium
<b>Pesticide Use Bylaw Update</b>	Following up on the adoption of the City's Pesticide Use Bylaw (No.7102), the committee continues to build on public awareness of gardening practices that avoids the use of cosmetic pesticides on lawns and gardens.	<ul style="list-style-type: none"> <li>When the revisions to the <i>Integrated Pest Management Act</i> comes into force, review the City's Pesticide Use Bylaw and consider if revisions to the bylaw are needed. <i>No Action Taken. Waiting for Provincial Regulatory changes to be implemented in 2015.</i></li> </ul>	Medium



<b>Implementation and Promotion of Environmental Programs / Policies</b>	<p>Promote City environmental programs and policies during community events and provide an opportunity for the public to meet City staff and Committee members to discuss environmental issues.</p> <p>Programs/policies to be promoted:</p> <ul style="list-style-type: none"> <li>• Watercourse and Riparian Area values</li> <li>• Invasive Plant Management</li> <li>• Community Sustainability Action Plan</li> <li>• City Green Building Policy</li> <li>• Pesticide Use Bylaw</li> <li>• ESAs and Habitat Protection</li> <li>• Burn it Smart Program</li> <li>• Water Conservation</li> </ul>	<ul style="list-style-type: none"> <li>• Staff /Committee members will participate in the following events: <ul style="list-style-type: none"> <li>- <i>Earth Hour (March)</i></li> <li>- <i>Earth Day (April)</i></li> <li>- <i>Environment Forum (June)</i></li> <li>- <i>Bike to Work Week and Clean Air Day Event (June)</i></li> <li>- <i>Rivers Day (September)</i></li> </ul> <b>Events Completed</b> </li> <li>• Invasive Plant Species Awareness Dates to be announced. <b>Events for May completed</b> <b>Follow-up fall events underway</b></li> <li>• <b>Tour by ACES members to review tree management practice in subdivision design in the City completed</b></li> </ul>	<b>Ongoing</b>
<b>City Native Plant Salvage Program</b>	<p>This program preserves native plants in the City of Nanaimo that would otherwise be lost to development or municipal work. Through voluntary partnerships with developers, the volunteer program members remove plants from development sites before construction begins.</p>	<ul style="list-style-type: none"> <li>• Pilot Program initiated</li> <li>• Follow-up report to be presented in early 2015</li> </ul>	<b>Ongoing</b>
<b>Declining Bird Population Study: Cat liscensing Bylaw</b>	<p>In response to the release of a national report (Calvert, Bishop et al. 2013. A Synthesis of Human Related Avaian Mortality in Canada. <i>Avian Conservation and Ecology</i> 8(2): 11) the committee directed staff to review opportunities to control cat populations as a way to lower bird mortality rates within the City.</p>	<ul style="list-style-type: none"> <li>• Bylaws Department are drafting a report to Council regarding the feasibility of the licensing and identification of cats and an amendment to the Animal Control Bylaw for a mandatory spay/neuter program.</li> </ul>	<b>Ongoing</b>
<b>Review of Urban Forest Management Practice (Single Family Subdivision and Development</b>	<p>As a follow-up to questions from the committee on current urban forestry practice, a high level review was initiated of City Tree Management Practice.</p>	<ul style="list-style-type: none"> <li>• Staff provided background information to committee members. A tour of three subdivision at difference points in the building process were visited and reviewed onsite, focusing on urban forest tree retention practice</li> </ul>	<b>Complete</b>

2014-DEC-05

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## PREDATION AND DISTURBANCE BY DOMESTIC PETS

Predation by feral and house cats is considered to be the largest source of direct human-related bird mortality, with an estimated loss of 100-350 million birds per year in Canada. The extent of the problem is not currently known in Vancouver and should be investigated further to inform management.

Options to mitigate this loss are complex and can be controversial. For example, trap, neuter and release programs for feral cat colonies are considered to be largely ineffective in reducing colony size and can be unpopular among local residents. However, many stewards of these cat colonies and others concerned with cat welfare believe this is an acceptable option.

Keeping cats indoors can help reduce the threat of bird predation from cats and is safer for cats. The BCSPCA strongly recommends keeping cats indoors to protect them from traffic accidents, contagious disease and predation from wild animals.

Dogs also pose a threat to birds when they are allowed to run off-leash, causing disturbance, injury or even death to birds. Dogs should be kept on leash except in designated off-leash areas as per the Animal Control By-Law No. 9150. More cost-effective and humane solutions to minimize predation and disturbance of birds by domestic pets are needed.



It is estimated that  
**100 - 350  
million birds**  
die every year in Canada  
due to predation by feral  
and house cats.

## Executive Summary

Trees in Campbell River contribute to the community's high quality of life. To keep these valuable assets thriving in an urban setting requires ongoing planning, maintenance and monitoring. This report is the first step towards an Urban Forest Management Plan with the completion of Phase 1: Urban Forest Inventory. The i-Tree Eco tool was utilized to conduct a comprehensive analysis of the current extent and condition of Campbell River's urban forest. Tree and shrub size and species information was used to quantify associated ecosystem functions and their public benefits and economic values.

### Campbell River's Urban Forest – Major Findings

FEATURE	MEASURE	
Number of trees	435,000 within the UCA – 2,800 of these are street trees	3.4 million City wide – 109 trees per person
Canopy cover	33% in the UCA	58% City wide
Increase canopy cover	A 1% in the UCA would require planting of 31 ha with 25,000 trees	
Plantable spaces	There is almost 15 ha of plantable spaces within municipal parks	
Most common tree species	In UCA natural areas and parks: Douglas-fir (in the evergreens, 7 species total) red alder (in the deciduous trees, 12 species total)	
Most common street tree species	Flowering cherry, red maple, Norway maple, katsura (33 species total)	
Annual street tree values	Benefits: \$67 per tree – total \$187,600 Average cost: \$17 per tree Net benefit: \$50 per tree – total \$161,600 Replacement value of street trees: \$2,240,400	
Carbon sequestered annually	2,940 tonnes within UCA – 426 tonnes by street trees	28,200 tonnes City wide
Corporate GHG emissions	1,511 tonnes (2012)	
Total carbon stored	100,000 tonnes within UCA – 600 tonnes in street trees	982,000 tonnes City wide
Stormwater runoff reduction	3,785 litres annually per tree	1.6 billion litres within the UCA
Air quality	60% reduction of fine particulate air pollution by street trees	
Business benefits	9-12% increased spending in well-treed commercial areas	
Real estate values	1-5% increase for trees in front yard landscaping 6-9% increase for neighbourhood tree cover	
Energy savings	10-15% residential heating savings from wind reduction 30% saved on air conditioning costs from shade trees	

TERRI MARTIN, B.Sc., R.P.Bio.  
Environmental Coordinator

City of Campbell River  
Tel: 250.286.5711

## **City of Nanaimo**

### **REPORT TO THE ADVISORY COMMITTEE ON ENVIRONMENTAL SUSTAINABILITY**

DATE OF MEETING: 2014-DEC-10

AUTHORED BY: ENVIRONMENTAL SERVICES DIVISION

RE: ENVIRONMENTAL SERVICES MONTHLY REPORT – NOVEMBER 2014

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#### **ENVIRONMENTAL PLANNING AND DEVELOPMENT:**

- Met with Nanaimo Estuary Management Committee. We will be working with committee members on a review of the 2004 plan document.
- Held a breakfast meeting with Realtors at the Nanaimo Golf Course to provide an update and congratulate realtors who have completed energy efficiency training through the REEP program.
- Began preparation for 2015 Woodstove Changeout launch set for 2015-JAN-05.

#### **DEVELOPMENT APPLICATION REVIEW & DEVELOPMENT REFERRALS**

- Attended one pre-application meeting and two site visits.
- Reviewed two planning development permit referrals and one subdivision referral.

#### **MEETINGS / TRAINING / PROFESSIONAL DEVELOPMENT:**

- Met with residents along the Cat Stream to respond to questions around riparian planting and stormwater management.
- Attended the PR&E Recreation Coordinators monthly meeting and provided an update on the City Plant Salvage Program.
- Attended the VIP Appreciation Luncheon and provided a short presentation on the Invasive Plant Management and Plant Salvage Programs.
- Met with VIU Biology Department and Ducks Unlimited to review results of the VIU bird banding program and to discuss building a structure to house a bird banding station in the West Marsh that would provide shelter to students on site.

#### **ENFORCEMENT:**

- Seven Bylaw Enforcement calls
- Two Section 9 notifications
- Two construction onsite monitoring
- GIS ground truthing
- Attended a two day course "Prosecute This 2"
- Reviewed three development referral applications.

PARKS OPERATIONS (OCTOBER 2014):

- An invasive plant removal was held in the Stephenson Point area. Another removal is in process by the South End Neighbourhood Association in partnership with the Samaritan House along laneways off of Nicol Street.
- The restoration project at Janes Park was completed with the further removal of blackberry and reseeding of the area.
- Two invasive plant volunteer work parties were held in Bowen Park and Pipers Lagoon Park.

INFRASTRUCTURE PLANNING & ENERGY:

- Sample vandal-resistant LED light fixture was installed in the Bastion Street Parkade. It will consume half the electricity of the existing HPS lights.
- Lighting upgrade in Activity Room #1 at Bowen Park Complex is proceeding. Hazardous materials test was conducted and returned negative. Lights will be upgraded from existing halogens to dimmable LEDs.
- Incentive payment of \$11,294 received from BC Hydro for implementing changes from the energy study conducted at Cliff McNabb Arena.
- Port Theatre circulation pump replacement project is in progress. The project will save approximately \$800 in electricity per year.

ONGOING COMMITTEE WORK:

ITEM:	RECOMMENDATION	STATUS	STAFF
Native Plant Salvage Program	Direct staff to return with a report on the feasibility, costs, benefits, and framework of a Native Plant Salvage Program	Staff will run a trial program in the Fall. Currently drafting report forms and held training course on 2014-NOV-06	Environmental Services  Parks Operations
Wild Bird Populations	Direct staff to return with a report on the topic of cat bylaws used in other cities and methods to protect wild bird populations as part of an information report to Council	Report to Council being drafted	Bylaws / Environmental Services
Environmental Framework for Nanaimo	Endorse the concept of developing an environmental framework for Nanaimo using a partnership model and that staff return with a report on the mechanics of developing the framework	Report pending	Environmental Services



**From:** BC Lung Association [<mailto:airquality@bc.lung.ca>]

**Sent:** Tuesday, November 18, 2014 3:14 PM

**To:** Rob Lawrance

**Subject:** 12th Annual Air Quality and Health Workshop - Avail Early Bird Registration Rates!



## The Future of Mobility, Air Quality, and Health AIR QUALITY AND HEALTH WORKSHOP MARCH 25, 2015

The movement of people and goods around cities, countries, and the planet impacts the health of populations via air pollution, physical activity, climate forcing and other pathways. New ideas and new technologies in transportation have the potential to bring about a paradigm shift over the coming decades, which could improve health at the global scale. This workshop will present ideas, research, and case studies from international experts who are challenging the status quo of mobility. Participants will be inspired to think about the possibilities while being challenged to consider what it would take to implement them.

[Click here for more information](#)

### LEARNING OBJECTIVES

Following the workshop we expect that participants will be able to broadly describe:

- how current mobility models affect public health, and how future models could improve public health
- mobility differences between large urban centers and smaller cities now and in the future
- developments in vehicular technology, shipping technologies, goods movement and their potential impacts on future mobility and health
- policy changes that will be necessary to facilitate improved mobility in future



## Registration Rates

Early Bird Rate - Deadline: January 5, 2015

Regular \$100.00 | Students \$50.00

After January 5, 2015

Regular \$125.00 | Students \$75.00

## Venue

Renaissance Vancouver Harbourside Hotel  
Harbourside Ballroom

1133 W Hastings St., Vancouver, BC

Phone: 604.689.9211

Room Rate: \$159.00/per night + taxes

Cut-off date: February 23, 2015

## DOWNLOAD REGISTRATION FORM

Please send registration by fax or email to: British Columbia Lung Association, Attn: Menn Biagtan  
Fax: 604-731-5810 | Email: [biagtan@bc.lung.ca](mailto:biagtan@bc.lung.ca)



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