April 20, 2007

NOTICE TO THE GVRD WASTE MANAGEMENT COMMITTEE

You are requested to attend a Special Meeting of the GVRD Waste Management Committee to participate in a Workshop regarding “Zero Waste Challenge and Waste Management Committee Priorities”, to be held on Thursday, April 26, 2007 at 1:00 p.m. at The Holiday Inn Express – Metrotown, 4405 Central Blvd., Burnaby, British Columbia Room: Salons A & B

AGENDA

1. ADOPTION OF THE AGENDA

1.1 April 26, 2007 Special Meeting Agenda
Staff Recommendation:
That the Waste Management Committee adopt the Agenda for the Special Meeting scheduled for April 26, 2006 as circulated.

2. REPORTS

2.1 Zero Waste Challenge
Designated Speaker: Toivo Allas, Manager – Policy & Planning
Recommendation:
That the Waste Management Committee review the ideas for strategies and actions for the Zero Waste Challenge (Attachment 1) and direct staff on the Committee’s priorities leading up to presentation of a set of ideas for strategies and actions at the public workshop scheduled for May 30, 2007.

3. INFORMATION ITEMS

3.1 Correspondence dated April 11, 2007 to GVRD Board Chair and Members, from Ms. Laura Kazakoff, City of Vancouver, regarding an Administrative Report titled “Report Back: The Next Steps in Waste Diversion”.

3.2 Correspondence dated April 5, 2007 to Mr. J. Carline, Chief Administrative Officer, GVRD from Ms. Sandra E. Dowey, City of North Vancouver, regarding “Demolition Waste Recycling Plan”.

4. ADJOURNMENT
Waste Management Committee Meeting Date: April 26, 2007

To: Waste Management Committee
From: Toivo Allas, Manager, Policy & Planning
Date: April 19, 2007
Subject: Zero Waste Challenge

Recommendation:

That the Waste Management Committee review the ideas for strategies and actions for the Zero Waste Challenge (Attachment 1) and direct staff on the Committee’s priorities leading up to presentation of a set of ideas for strategies and actions at the public workshop scheduled for May 30, 2007.

1. PURPOSE

To obtain direction from the Committee on strategies and actions to incorporate into the Zero Waste Challenge.

2. CONTEXT

In May 2006, the GVS&DD Board directed staff to draft a Zero Waste challenge which would provide the basis for community consultation. At the September 29, 2006 Board meeting a work plan for the Zero Waste Challenge was approved.

A public workshop with the Waste Management Committee was held on November 15, 2006 to receive input regarding all aspects of the management of municipal solid waste but focusing on two specific goals. These goals are:

    Goal 1: Minimize the generation of solid waste in the region.
    Goal 2: Maximize reuse, recycling, and energy recovery from solid waste.

In addition to the Waste Management Committee, approximately 75 people attended including municipal staff, waste management operators, contractors, consultants and members of the public. The workshop, feedback forms, a web survey and correspondence to the GVRD produced a large number of comments and suggested strategies and actions which were tabulated in the Zero Waste Challenge Consultation Report.

Staff have reviewed the input from the consultation process to date and have produced a table of suggested strategies and actions for consideration by the Committee — the table is titled Zero Waste Challenge – Ideas for Strategies and Actions and is provided as Attachment 1. This document was developed on the basis of input from the consultation process and each of the implementation steps have been classified and are colour-coded. It is the intent that this table will be the focus of discussion by the Committee. A finalized table will be presented for discussion at a second public workshop on May 30, 2007.
Attachment 2, titled Zero Waste Challenge – Tabulation of Consultation Input is a detailed compilation of the input received by GVRD in response to the Zero Waste Challenge. This document is sorted by general topic and is provided as additional reference.

3. ALTERNATIVES

The Committee may:

a) Review the ideas for strategies and actions for the Zero Waste Challenge (Attachment 1) and direct staff on the Committee’s priorities leading up to presentation of a set of ideas for strategies and actions at the public workshop scheduled for May 30, 2007.

b) Reject the table “Zero Waste Challenge – Ideas for Strategies and Actions” and provide alternate direction to staff.

4. CONCLUSION

Staff recommends alternative a), which will allow presentation of a set of ideas for strategies and actions at the May 30, 2007 public workshop based on the Committee’s review and input.

Attachments
2. Zero Waste Challenge - Tabulation of Consultation Input (eRim 004498313)
## Goal 1: Minimize waste generation

<table>
<thead>
<tr>
<th>Strategy</th>
<th>Proposed Action</th>
<th>Steps to Implement Action</th>
<th>*Priority</th>
</tr>
</thead>
</table>
| Foster a Zero Waste Ethic through GVRD information, education and communication programs | Develop a Zero Waste communication program | > Develop common messaging which can be shared with municipalities  
> Develop communication program for businesses  
> Develop communication program for multi-family residences  
> Develop communication program for the consumer  
> Develop a forum or venue for receiving input from the public, businesses, the waste management industry and others on waste management issues and solutions | A |
| Encourage personal action | > Develop and publicize suggestions for reducing waste  
> Set waste reduction goals for individuals, families and businesses | B |
| Lead by example | > Establish local celebrities as spokespersons or champions for zero waste initiatives  
> Municipalities to establish policies & regulations to encourage zero waste practices  
> Set waste reduction goals for GVRD and municipalities | B |
| Provide reduction, recycling and disposal information | > Develop a central body of information regarding recycling, reuse and disposal options | C |
| Provide technical assistance | > Develop a short course for building and property managers on managing hard to recycle items  
> Expand SmartSteps and BuildSmart programs | C |
| Advocate that senior governments transfer additional waste management responsibilities to producers and consumers | Lobby provincial government and product stewards to expand and improve Extended Producer Responsibility (EPR) programs | > Be a strong voice for EPR through active membership on stewardship advisory committees and provincial and national EPR initiatives  
> Expand existing programs  
> Require external audit of stewardship programs  
> Seek product and packaging standards that conserve resources  
> Set requirements for use of local government facilities by product stewards  
> Stewards to increase public awareness  
> Work with province to prioritize the addition of new EPR programs  
> Work with retailers to establish take back programs | E |
| Lobby the provincial and federal governments to establish policies and practices that encourage Zero Waste practices | > Promote waste reduction and recycling on a provincial and federal level  
> Seek product and packaging standards that conserve resources  
> Seek to discourage non-durable products and packaging  
> Seek to shift economic drivers that favour virgin feedstocks over recycled material  
> Tax non-durable and single use products | B |

*Priority Colour Code  
A - Identified as early actions - work is under way  
B - High priority - as soon as possible  
C - Medium priority - as resources available  
D - Low priority  
E - Already in place
<table>
<thead>
<tr>
<th>Strategy</th>
<th>Proposed Action</th>
<th>Steps to Implement Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Support the business of recycling</td>
<td>Increase supply of recyclables</td>
<td>&gt; Encourage local processing of recyclables</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&gt; Identify new materials to recycle</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&gt; Utilize differential tipping fees or other economic instruments to encourage recycling</td>
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<tr>
<td></td>
<td></td>
<td>(yard &amp; garden waste)</td>
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<tr>
<td>Remove barriers to private sector recycling</td>
<td>Explore and evaluate the establishment of Recycling Market Development Zones in</td>
<td>&gt; Develop “green” procurement policies</td>
</tr>
<tr>
<td>activities</td>
<td>one or more municipalities</td>
<td>&gt; Make land use policies friendlier to recycling and reuse businesses</td>
</tr>
<tr>
<td>Work to expand sustainable markets for recycled</td>
<td></td>
<td>&gt; Identify new materials to recycle</td>
</tr>
<tr>
<td>materials</td>
<td></td>
<td>&gt; Utilize differential tipping fees or other economic instruments to encourage recycling</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(yard &amp; garden waste)</td>
</tr>
<tr>
<td>Target high volume or non-renewable materials</td>
<td>Address paper</td>
<td>&gt; Increase paper recycling opportunities</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&gt; Investigate means to reduce junk mail and free newspapers</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&gt; Promote reduced paper use in schools and businesses</td>
</tr>
<tr>
<td></td>
<td>Address plastic</td>
<td>&gt; Explore and evaluate plastic markets for the purpose of increasing the number of</td>
</tr>
<tr>
<td></td>
<td></td>
<td>plastic types collected</td>
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<tr>
<td></td>
<td></td>
<td>&gt; Study and report on the the impacts and implications of plastic bag distribution</td>
</tr>
<tr>
<td></td>
<td>Address wood waste</td>
<td>&gt; Consult with existing wood recyclers regarding removal of more wood from waste stream</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&gt; Explore and evaluate the effects of banning clean and/or mixed woodwaste from</td>
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<tr>
<td></td>
<td></td>
<td>disposal</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&gt; Research the regulations regarding the use and reuse of wooden pallets</td>
</tr>
<tr>
<td></td>
<td>Address yard trimmings and food waste</td>
<td>&gt; Investigate existing composting operations with emphasis on siting, odour control and</td>
</tr>
<tr>
<td></td>
<td></td>
<td>costs (demonstration trial)</td>
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<td></td>
<td></td>
<td>&gt; After identifying preferred composting technologies research the means of collection</td>
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<td></td>
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<td>from each sector with emphasis on costs and avoiding contamination.</td>
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<td></td>
<td></td>
<td>&gt; Work with social agencies that rescue unwanted (but edible) food</td>
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<td></td>
<td></td>
<td>&gt; Investigate the recovery of energy from organic waste</td>
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<td></td>
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<td>&gt; Issue a Request for Expressions of Interest for establishing a composting operation.</td>
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<td></td>
<td></td>
<td>&gt; Promote home and neighbourhood composting</td>
</tr>
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<td></td>
<td></td>
<td>&gt; Research and confirm compost markets identified as easily accessible</td>
</tr>
<tr>
<td>Use fees and regulation to discourage disposal</td>
<td>Strengthen material disposal bans</td>
<td>&gt; Increase the number of banned materials</td>
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<tr>
<td></td>
<td></td>
<td>&gt; Inspect waste set out by residents and businesses and penalize for recyclables and</td>
</tr>
<tr>
<td></td>
<td></td>
<td>banned materials found in waste</td>
</tr>
<tr>
<td></td>
<td>Establish a mandatory recycling bylaw for businesses &amp; institutions</td>
<td>&gt; Ensure that recycling bins are conveniently located and outnumber garbage bins.</td>
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<tr>
<td></td>
<td></td>
<td>&gt; Establish a system for commercial and institutional recycling where payment for</td>
</tr>
<tr>
<td></td>
<td></td>
<td>service is mandatory but participation is voluntary</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&gt; Make waste reduction and recycling a requirement of business licensees</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&gt; Require multi-family and commercial buildings to provide sufficient space in a</td>
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<td></td>
<td></td>
<td>convenient location for comprehensive recycling</td>
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<td></td>
<td></td>
<td>&gt; Require recycling and waste reduction plans as part of municipal permit and rental</td>
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<td></td>
<td></td>
<td>agreements for events and facility rentals and implement such plans for municipal and</td>
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<td></td>
<td></td>
<td>GVRD sponsored events</td>
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<tr>
<td></td>
<td></td>
<td>&gt; Set waste reduction and recycling requirements for institutions</td>
</tr>
<tr>
<td></td>
<td>Establish Pay-as-you-Throw programs and limits for all users of disposal</td>
<td>&gt; Investigate high tech means of limiting waste disposed</td>
</tr>
<tr>
<td>facilities</td>
<td></td>
<td>(Computer tracking)</td>
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<td></td>
<td></td>
<td>&gt; Investigate low tech means of limiting waste disposal (Variable can size)</td>
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<td></td>
<td></td>
<td>&gt; Develop and implement a tipping fee bylaw</td>
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<td>&gt; Raise tipping fees sufficiently to encourage materials recovery and recycling but</td>
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<tr>
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<td></td>
<td>not enough to encourage waste export</td>
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<td></td>
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<td>&gt; Standardize can limits across GVRD</td>
</tr>
</tbody>
</table>

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## Goal 2: Maximize reuse, recycling and energy recovery

<table>
<thead>
<tr>
<th>Strategy</th>
<th>Proposed Action</th>
<th>Steps to Implement Action</th>
<th>*Priority</th>
</tr>
</thead>
<tbody>
<tr>
<td>Increase participation in and effectiveness of reuse &amp; recycling</td>
<td>Explore and evaluate franchising for collecting waste and recyclables</td>
<td>&gt; Explore and evaluate precinct or franchise models for commercial waste – avoid having multiple trucks serving one street; Structure franchise agreements to provide incentives for recycling and waste reduction; ensure different sized precincts to allow smaller players an opportunity in the market.</td>
<td>B</td>
</tr>
<tr>
<td>Make waste reduction and recycling convenient</td>
<td>Explore and evaluate provision of curbside pickup for large recyclable and/or garbage items (Spring cleanup)</td>
<td>&gt; Explore and evaluate single stream recycling</td>
<td>B</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&gt; Improve access to recycling depots</td>
<td>C</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&gt; Increase the number of recyclables collected at depots</td>
<td>C</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&gt; Standardize municipal programs</td>
<td>C</td>
</tr>
<tr>
<td>Create conditions that favour DLC recycling over disposal</td>
<td>Allow more reused and recycled material in construction projects</td>
<td>&gt; Allow more reused and recycled material in construction projects</td>
<td>C</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&gt; Low cost disposal of DLC at sites outside of GVRD</td>
<td>D</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&gt; Require waste management plans for demolition and construction projects as part of building permitting process</td>
<td>C</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&gt; Use demolition and building permits to encourage waste reduction and recycling</td>
<td>C</td>
</tr>
<tr>
<td>Maximize energy and material recovery from residuals</td>
<td>Direct high heat value material to industrial thermal facilities to replace fossil fuels</td>
<td>&gt; Explore partnerships with industries seeking alternate or refuse derived fuels</td>
<td>A</td>
</tr>
<tr>
<td></td>
<td>Explore and evaluate district heating opportunities from waste-to-energy projects</td>
<td>&gt; Continue working towards eco-industrial networks</td>
<td>D</td>
</tr>
<tr>
<td></td>
<td>Investigate waste-to-energy &amp; waste conversion technologies</td>
<td>&gt; Reassess the role of waste-to-energy in an integrated waste management system</td>
<td>A</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&gt; Utilize waste-to-energy after all other diversion activities</td>
<td>C</td>
</tr>
<tr>
<td>Recover and use landfill gas</td>
<td>Incorporate landfill gas collection and use into any new landfill development</td>
<td>&gt; Incorporate landfill gas collection and use into any new landfill development</td>
<td>B</td>
</tr>
<tr>
<td>Research</td>
<td>Collection</td>
<td>&gt; Review programs in other jurisdictions</td>
<td>E</td>
</tr>
<tr>
<td></td>
<td>Composting</td>
<td>&gt; Review programs in other jurisdictions</td>
<td>E</td>
</tr>
<tr>
<td></td>
<td>Disposal</td>
<td>&gt; Review programs in other jurisdictions</td>
<td>E</td>
</tr>
<tr>
<td></td>
<td>Energy</td>
<td>&gt; Review programs in other jurisdictions</td>
<td>E</td>
</tr>
<tr>
<td></td>
<td>e-waste</td>
<td>&gt; Review programs in other jurisdictions</td>
<td>E</td>
</tr>
<tr>
<td></td>
<td>Plastics</td>
<td>&gt; Review programs in other jurisdictions</td>
<td>E</td>
</tr>
<tr>
<td></td>
<td>Recycling</td>
<td>&gt; Review programs in other jurisdictions</td>
<td>E</td>
</tr>
<tr>
<td></td>
<td>Reduction</td>
<td>&gt; Review programs in other jurisdictions</td>
<td>E</td>
</tr>
<tr>
<td></td>
<td>Reuse</td>
<td>&gt; Review programs in other jurisdictions</td>
<td>E</td>
</tr>
<tr>
<td>Examine existing system</td>
<td>Collection</td>
<td>&gt; Examine the use of dual compartment collection vehicles to reduce truck traffic</td>
<td>C</td>
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<tr>
<td></td>
<td></td>
<td>&gt; Examine the use of onboard scales for Pay As You Throw systems</td>
<td>C</td>
</tr>
<tr>
<td></td>
<td>Disposal</td>
<td>&gt; Examine other disposal options within GVRD</td>
<td>A</td>
</tr>
<tr>
<td></td>
<td>Transfer stations and depots</td>
<td>&gt; Examine differential pricing for different materials and different times</td>
<td>B</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&gt; Examine the further integration of transfer and recycling services</td>
<td>C</td>
</tr>
<tr>
<td></td>
<td>Waste reduction programs</td>
<td>&gt; Establish a quantity measuring &amp; reporting system which operates on measured data only - not estimates</td>
<td>B</td>
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<tr>
<td></td>
<td></td>
<td>&gt; Establish interim targets for waste reduction</td>
<td>B</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&gt; Work with waste management industry to develop programs to increase commercial and multi-family recycling</td>
<td>C</td>
</tr>
</tbody>
</table>

*Priority Colour Code

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- **C** - Medium priority - as resources available
- **D** - Low priority
- **E** - Already in place
<table>
<thead>
<tr>
<th>General Topic</th>
<th>Comment from Consultation</th>
<th>Steps to Implement Action</th>
<th>Tool</th>
<th>Staff Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ban - IMPLEMENTATION</td>
<td>Insure there are recycling/reuse alternatives available before implementing ban</td>
<td>Increase the number of banned materials</td>
<td>Regulation</td>
<td>The availability of management alternatives is the deciding factor on what waste can be banned. Enforcement is done by random checks of waste that are dropped as an unannounced inspector. The number of checks can increase but it is not important to the increase in awareness of waste generators.</td>
</tr>
<tr>
<td>Ban from Classroom</td>
<td>Ban garbage/waste from the classroom.</td>
<td>Set waste reduction and recycling requirements for institutions</td>
<td>Regulation</td>
<td>These materials are already banned.</td>
</tr>
<tr>
<td>Ban from disposal</td>
<td>Ban cans, glass, cardboard</td>
<td>Set waste reduction and recycling requirements for institutions</td>
<td>Regulation</td>
<td>Alternatives are not currently available for many types of packaging.</td>
</tr>
<tr>
<td>Ban from manufacturing and distribution</td>
<td>Ban hike shrink-wrapped products</td>
<td>Increase the number of banned materials</td>
<td>Regulation</td>
<td>Alternatives are not readily available</td>
</tr>
<tr>
<td>Ban on single-use products</td>
<td>Ban the sale of disposable products</td>
<td>Increase the number of banned materials</td>
<td>Regulation</td>
<td>Alternatively available for many types of packaging.</td>
</tr>
<tr>
<td>Collection</td>
<td>Composting – collection</td>
<td>Increase the number of banned materials</td>
<td>Regulation</td>
<td>Alternatives are not readily available</td>
</tr>
<tr>
<td>Collection</td>
<td>Multi-family households should use chinese bins.</td>
<td>Increase the number of banned materials</td>
<td>Regulation</td>
<td>Alternatives are not readily available</td>
</tr>
<tr>
<td>Collection</td>
<td>Ban from disposal:</td>
<td>Increase the number of banned materials</td>
<td>Regulation</td>
<td>Alternatives are not readily available</td>
</tr>
<tr>
<td>Collection</td>
<td>Insure there are recycling/reuse alternatives available before allowing smaller players an opportunity in the market</td>
<td>Increase the number of banned materials</td>
<td>Regulation</td>
<td>Alternatives are not readily available</td>
</tr>
<tr>
<td>Collection</td>
<td>Ban recyclables accepted at curbside and depots including bans on plastic waste</td>
<td>Increase the number of banned materials</td>
<td>Regulation</td>
<td>Alternatives are not readily available</td>
</tr>
<tr>
<td>Ban on single-use products</td>
<td>Reduce the use of garbage bags</td>
<td>Increase the number of banned materials</td>
<td>Regulation</td>
<td>Alternatives are not readily available</td>
</tr>
<tr>
<td>Ban on single-use products</td>
<td>Reduce the use of garbage bags</td>
<td>Increase the number of banned materials</td>
<td>Regulation</td>
<td>Alternatives are not readily available</td>
</tr>
<tr>
<td>Ban on single-use products</td>
<td>Increase the number of banned materials</td>
<td>Increase the number of banned materials</td>
<td>Regulation</td>
<td>Alternatives are not readily available</td>
</tr>
<tr>
<td>Ban from classroom</td>
<td>Ban garbage/waste from the classroom.</td>
<td>Set waste reduction and recycling requirements for institutions</td>
<td>Regulation</td>
<td>These materials are already banned.</td>
</tr>
<tr>
<td>Ban from disposal</td>
<td>Ban cans, glass, cardboard</td>
<td>Set waste reduction and recycling requirements for institutions</td>
<td>Regulation</td>
<td>Alternatives are not currently available for many types of packaging.</td>
</tr>
<tr>
<td>Ban from manufacturing and distribution</td>
<td>Ban hike shrink-wrapped products</td>
<td>Increase the number of banned materials</td>
<td>Regulation</td>
<td>Alternatives are not readily available</td>
</tr>
<tr>
<td>Ban on single-use products</td>
<td>Ban the sale of disposable products</td>
<td>Increase the number of banned materials</td>
<td>Regulation</td>
<td>Alternatives are not readily available</td>
</tr>
<tr>
<td>Ban on single-use products</td>
<td>Ban the production of single-use items that can’t be composted, recycled, or reused</td>
<td>Increase the number of banned materials</td>
<td>Regulation</td>
<td>Alternatives are not readily available</td>
</tr>
<tr>
<td>Ban on single-use products</td>
<td>Ban the production of non-recyclable plastics</td>
<td>Increase the number of banned materials</td>
<td>Regulation</td>
<td>Alternatives are not readily available</td>
</tr>
<tr>
<td>Collection</td>
<td>Reduce the use of garbage bags</td>
<td>Increase the number of banned materials</td>
<td>Regulation</td>
<td>Alternatives are not readily available</td>
</tr>
<tr>
<td>Collection</td>
<td>Reducing waste in the classroom</td>
<td>Increase the number of banned materials</td>
<td>Regulation</td>
<td>Alternatives are not readily available</td>
</tr>
<tr>
<td>Collection</td>
<td>Reduce the use of garbage bags</td>
<td>Increase the number of banned materials</td>
<td>Regulation</td>
<td>Alternatives are not readily available</td>
</tr>
<tr>
<td>Collection</td>
<td>Multi-family households should use chinese bins.</td>
<td>Increase the number of banned materials</td>
<td>Regulation</td>
<td>Alternatives are not readily available</td>
</tr>
<tr>
<td>Collection</td>
<td>Ban from disposal:</td>
<td>Increase the number of banned materials</td>
<td>Regulation</td>
<td>Different incentives for recycling and waste reduction; ensure greater recycling from businesses</td>
</tr>
<tr>
<td>Collection</td>
<td>Insure there are recycling/reuse alternatives available before allowing smaller players an opportunity in the market</td>
<td>Increase the number of banned materials</td>
<td>Regulation</td>
<td>Alternatives are not readily available</td>
</tr>
<tr>
<td>Collection</td>
<td>Ban from disposal:</td>
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**Attachment 2**

**Zero Waste Challenge Tabulation of Consultation Input**
Composting – concerns

- Collecting organic matter from households and restaurants, as an example, tends to be successful but costs a good deal of money.
- Overall composting of mixed waste is not successful, treating yard waste as separate organic waste tends to be more successful.
- Better technology is required to deal with large amounts of organic waste.

Consulting with other organizations that are similarly concerned, is a useful way to contribute to that fact that (naturally) half of our carbon pollution currently occurs at the composting stage. The market needs a better view of what “organic” waste can be composted.

- There must be demonstration that composting is more environmentally beneficial. If not, other waste-to-energy initiatives will be more attractive.
- Organic food recycling, in place since 1972, has achieved only limited success, and not of the levels of obtaining drugs, public health or revenue. The survey of organic waste reveals most of it will be compostable.

Regarding pollution with large organic waste, a use for the compost is found in the fact that it can have half of its carbon pollution currently occurring at the composting stage. The market needs a better view of what “organic” waste can be composted.

- There are some regulatory issues around composting solid waste products to the public, involving liability and risk.
- There is a need for more comprehensive research on the economic viability of composting organic waste.

Composting – home or backyard

- Organic food waste produces much better compost than other types of waste. An example of this is how we use food waste to energy for it to be valuable. The example of organic food recycling, in place since 1972, has achieved only limited success, and not of the levels of obtaining drugs, public health or revenue. The survey of organic waste reveals most of it will be compostable.
- Advertise the use, and increase availability of home composting kits, or similar waste recycling initiatives. Research and confirm compost markets identified as easily accessible. Research and confirm compost markets identified as easily accessible.
- Promote home and neighbourhood composting. Promote home and neighbourhood composting.

- Make people pay to dispose of organic waste; this encourages greater incentive to compost. Compost and soil should be transported to the interior where soil is poor.
- Create mini-community composting using pressure from municipalities and regulation to encourage compliance. Compost can also be transported for a fee.

A system needs to be implemented at home to deal with organic waste; this would also remove the need for composting.

Composting – markets & planning

- A successful organic management program needs: an exclusive source of food waste; covered and aerated, specific collection and distribution plan; and food waste to be regarded differently: not as waste but a resource.
- A successful food waste management program needs: an exclusive source of food waste; covered and aerated, specific collection and distribution plan. Food waste to be regarded differently: not as waste but a resource.

- Compost and soil should be transported to the interior where soil is poor.
- Composting must be viewed economically: as a product.

The productivity of agricultural soils can be greatly increased through the use of composted organic agriculture as a fertilizer and soil additive. Chemical fertilizers (which are expensive and harm the environment as a result of leaching into waterways) could be replaced with compost for almost the same cost but as usable compost.

- The economic viability of composting organic waste is based on a number of factors, including the need for more comprehensive research on the economic viability of composting organic waste.

Consult with or carry out dialogue with

- Consult the private sector (e.g. Vancouver Chamber of Commerce and the Board of Trade).
- Consult with industry from the planning stage.
- Consult with product industry to develop solid waste regulations.
- Consult with recycling associations.
- Consult with government and the public to work more actively in discussing and implementing solid waste management initiatives.
- Organize various groups and organizations to increase the number of people involved in the process. A forum or venue for receiving input from the public, businesses, the waste management industry and others on waste management issues and solutions.

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Contact

- Investigate initiatives such as the UK’s Waste Balancing plan for the UNEP’s Sustainable Production and Consumption team in Paris, and the intergovernmental material flow (MFA) team in the GEEP.
- Investigate existing operating conditions with emphasis on siting, carbon control and costs (memorandum item). Promote home and neighbourhood composting.

- Investigate existing operating conditions with emphasis on siting, carbon control and costs (memorandum item). Promote home and neighbourhood composting.

- Investigate existing operating conditions with emphasis on siting, carbon control and costs (memorandum item). Promote home and neighbourhood composting.

- Investigate the recovery of energy from organic waste. Investigate the recovery of energy from organic waste.

- Issue a request for Expressions of Interest for establishing a composting operation. Issue a request for Expressions of Interest for establishing a composting operation. Issue a request for Expressions of Interest for establishing a composting operation. Issue a request for Expressions of Interest for establishing a composting operation.

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<thead>
<tr>
<th>General Topic</th>
<th>Comment from Consultation</th>
<th>Steps to Implement Action</th>
<th>Tool</th>
<th>Staff Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design for Environment</td>
<td>Design products for remanufacturing, e.g. electronics.</td>
<td>Research programs in other jurisdictions</td>
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<tr>
<td>DLC and Wood Waste</td>
<td>Re-use number of pallets.</td>
<td>Consult with existing woody pallets regarding removal of more wood from waste stream</td>
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<tr>
<td>Education - General</td>
<td>Provide information on the full cost of waste.</td>
<td>Explore and evaluate the effects of barring clean and mixed woodwaste from disposal</td>
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<tr>
<td>Education - Increase</td>
<td>Develop communication program for businesses.</td>
<td>Develop common messaging which can be shared with municipalities</td>
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<tr>
<td>Education Promotion</td>
<td>Implement Zero waste events.</td>
<td>Develop common messaging which can be shared with municipalities</td>
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<tr>
<td>Encourage the reuse and</td>
<td>Harming homes/unemployed to salvage materials.</td>
<td>Develop communication program for multihistory residences</td>
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<tr>
<td>recycling of building</td>
<td>Building permits allowing more reused/recycled material</td>
<td>Develop communication program for the classroom</td>
<td></td>
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<tr>
<td>materials</td>
<td>Demolition permits to require salvaging and include cost of disposal</td>
<td>Expand communication program for the classroom</td>
<td></td>
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</table>

| Zero Waste Challenge          | Tabulation of Consultation Input                                                          | Source: School Districts and schools across the region                                  |      |               |
Energy from Waste - Concerns

In many cases it’s more efficient and effective to spend money on improving pollution control in non-waste industries (a quintessential “triple bottom line” philosophy). Improve recycling strategies for demolition and construction projects. Improve recycling strategies for demolition and construction projects. Improve recycling strategies for demolition and construction projects. Improv

Concerns

Extended Producer Responsibility (EPR)

Seek product and packaging standards that conserve resources

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### Local Government Initiatives

Create drop-in recycling centers including stewardship items to disposable items. The system needs to be accountable as to what goes into the garbage.

- **Step 1:** Implement new municipal recycling programs to ensure the maximum recovery.
- **Step 2:** Implement policies for mandatory recycling.
- **Step 3:** Explore and evaluate the establishment of Recycling Market Development Zones in one or more municipalities.

### Improvement to Municipal systems

- **Step 1:** Develop a central body of information regarding product and packaging standards that conserve resources.
- **Step 2:** Explore the establishment of Recycling Market Development Zones in one or more municipalities.

### Good Ideas that don’t fit into anywhere else

- **Step 1:** Develop a communication program for the consumer.
- **Step 2:** Develop a communication program for multi-family residences.
- **Step 3:** Explore the establishment of Recycling Market Development Zones in one or more municipalities.

### Fiscal

- **Step 1:** Implement yearly incentives for every municipality in the GVRD.
- **Step 2:** Review programs in other jurisdictions.
- **Step 3:** Study and report on the the impacts and implications of plastics and packaging.

### Steps to Implement Action

1. Increase advertising of EPR programs. Publicize existing information resources.
2. Set waste reduction goals for GVRD and municipalities.
3. Develop a communication program for the consumer.
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14. Set waste reduction goals for GVRD and municipalities.
15. Develop a communication program for the consumer.
Philosophy

One person’s waste is another person’s resource. Every disposal practice has its limitations: Some things are unsalable; there are no vending machines for human waste; some materials are already being recycled; some are not; some are already recovered; some are not; there are no markets for all materials; and there are no recycling centres everywhere.

Personal Actions

Reduce consumption – reduce the need to dispose of waste: The individual can choose to consume less. There are organizations that have developed strategies to assist individuals in doing this. ‘Shop’ for goods that do not create waste (e.g. furniture, clothing). These organizations are not perfectly successful, but they do work. One might want to consider that these organizations are only being modestly successful in forcing change. The individual can choose not to buy. To make the market respond, the individual must do this strenuously. Food waste is the result of personal choices: individual and collective.

Make it easier for customers to recycle to reclaim more materials from garbage or to increase the volume of materials for sale. "Free stores" on a small scale can be developed. Taking two or three recyclables from the recycling bin could turn it into a free store. A few 'free stores' would be a large impact. A study is needed to determine the level of recycling that can be done in free stores.

Explore and evaluate single stream recycling. Single stream recycling provides this convenience. Make it easier for consumers to recycle all recyclable materials, perhaps by creating an area in one municipality where all materials can be dropped off (e.g. Salmon Creek Recycling depot in Barney). The GVRD should provide primary recycling resources at various recycling depots and facilities.

Implement a cooperative supply system rather than a competitive one. A number of municipalities are doing this for selected materials such as paper or beverage containers.

Create a mobile mini-recycling depot that can be set up at different locations. Make it easier for consumers to recycle all recyclable materials, perhaps by creating an area in one municipality where all materials can be dropped off (e.g. Salmon Creek Recycling depot in Barney). The GVRD should provide primary recycling resources at various recycling depots and facilities.

Make it easier for customers to reclaim more materials from garbage or to increase the volume of materials for sale. "Free stores" on a small scale can be developed. Taking two or three recyclables from the recycling bin could turn it into a free store. A few 'free stores' would be a large impact. A study is needed to determine the level of recycling that can be done in free stores.

Assure access to all recycling centers. Make it easier for customers to recycle all recyclable materials, perhaps by creating an area in one municipality where all materials can be dropped off (e.g. Salmon Creek Recycling depot in Barney). The GVRD should provide primary recycling resources at various recycling depots and facilities.

Implement small community recycling facilities; local groups and businesses can partner in this. Implement small community recycling facilities; local groups and businesses can partner in this.

Implement a cooperative supply system rather than a competitive one. A number of municipalities are doing this for selected materials such as paper or beverage containers.

Environmental issues have become personalized - no longer abstract. Population is willing to adopt positive attitudes and strategies.

Attachment 2
We need to reassess who we are and think of ourselves as citizens instead of consumers. Each individual must ask themselves what they can do with each item rather than throwing it out. No longer can one person changing their habits make a difference; government bodies are required to take a crucial role and force changes upon people through regulations and laws.

Plastic bags
- Provide more information on recycling, e.g. recycling depots in various parts of the GVRD where non-hazardous materials can be dropped off.
- Study and report on the impacts and implications of plastics bag distribution.

Regulate
- Develop communication program for businesses.
- Develop communication program for the consumer.
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Procurement policies
- Large organizations should have a purchasing policy that require recycled content for the goods that they purchase.
- Develop "green" procurement policies.

Regulate
- The GVRD provides input and comments to any relevant legislation circulated for consultation by the province.

Regulate
- Place the Zero Waste Challenge within a global context.

Regulate
- Place posters in retail shops to educate retailers and citizens about recycling.

Regulate
- Place more information on the specifics of recycling, e.g. do labels and tabs have come off of it? Do they, or jar, need to be clear to be recyclable?

The next Zero Waste Challenge workshop should include:
- Place the Zero Waste Challenge within a global context through the examination of increasing resource scarcity, unendurable production and consumption patterns, and high-impact lifestyle and industrial processes in this region, compared to those of other regions. This global context should be used as a basis for developing regulations (in product design, certification, policy making, consumer choice, industrial processing) that are required to advance towards zero waste.
- The GVRD should not assume that zero waste is not a realistic goal.

Broader public communication at ZWC workshops
- Develop a forum or venue for receiving input from the public, businesses, the waste management industry and others on waste management issues and solutions.

More input from environmental groups at ZWC workshops
- Develop a forum or venue for receiving input from the public, businesses, the waste management industry and others on waste management issues and solutions.

Cleaner description of the ZWC process
- Develop a forum or venue for receiving input from the public, businesses, the waste management industry and others on waste management issues and solutions.

Clearly focused topics such as reducing GVRD waste management system, improved personal behaviours, improved corporate behaviours, improved regulation by senior levels of government at ZWC workshops
- Develop a forum or venue for receiving input from the public, businesses, the waste management industry and others on waste management issues and solutions.

More informational content at ZWC workshops
- Develop a forum or venue for receiving input from the public, businesses, the waste management industry and others on waste management issues and solutions.

Tying part in the Zero Waste Challenge should not be optional
- Make waste reduction and recycling a requirement of business licences.
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Dear Chair and Members:


At its meeting on Thursday, April 5, 2007, Vancouver City Council approved the following:


B. THAT Vancouver City Council recommend to the GVRD that it adopt an initial target of 75% diversion of waste through the elimination of wood, paper, cardboard, and yard waste from the residual waste stream.

C. THAT Vancouver City Council urge the Provincial Government to adopt full product stewardship standards, particularly in their new electronic waste regulations.

The relevant Administrative Report referred to in the above motion can be viewed on the City’s website at the following URL:

Yours truly,

Laura Kazakoff
Meeting Coordinator

Phone: 604.871.6353
City Clerks Office email: info@vancouver.ca
April 5, 2007

Mr. Johnny Carline
Chief Administrative Officer
Greater Vancouver Regional District
4330 Kingsway
Burnaby BC V5H 4G8

Dear Mr. Carline:

Re:  Demolition Waste Recycling Plan

The City Council at its regular meeting of Monday, April 2, 2007, unanimously endorsed the following resolution:

"WHEREAS waste from building demolition is an increasing component of waste received at transfer stations and landfills; and

WHEREAS much demolished building waste has continued economic and use value;

NOW THEREFORE BE IT RESOLVED THAT the City of North Vancouver implement a policy requiring the submission of a demolition waste recycling plan as a requirement of the issuance of demolition permits; and

RESOLVED THAT the City work with its partner municipalities in the North Shore Recycling Program to create opportunities for citizens to recycle usable components of renovation waste;

AND THAT this resolution be forwarded to Greater Vancouver Regional District member municipalities."

Yours truly,

Sandra E. Dowey
City Clerk

CC: S. Ono, City Engineer
F.A. Smith, Director, Community Development
P. Melville, Manager, Inspections
G. Stainton, Manager, City Facilities