TO: Standing Committee on Planning and Environment
FROM: Director of Social Planning in Consultation with the Vancouver Food Policy Council
SUBJECT: Second Annual Food Policy Progress Report

RECOMMENDATION

A. THAT Council receive the following for information:
   
a) update on the work of Food Policy staff as attached in APPENDIX A;
b) report on the work of the Vancouver Food Policy Council as attached in APPENDIX B;
c) Vancouver Recovered Food Assessment as prepared by the Vancouver Food Policy Council as attached in APPENDIX C;
d) Vancouver Food Charter: Context and Background as prepared by the Vancouver Food Policy Council as attached in APPENDIX D.

B. FURTHER THAT Council adopt the Vancouver Food Charter as prepared by the Vancouver Food Policy Council as attached in APPENDIX E.

GENERAL MANAGER'S COMMENTS

The General Manager of Community Services RECOMMENDS approval of the foregoing.
COUNCIL POLICY

Food Policy

On July 8, 2003, Council approved a motion supporting the development of a just and sustainable food system for the City of Vancouver.

On December 11, 2003, Council approved the proposed Action Plan for Creating a Just and Sustainable Food System for the City of Vancouver (Food Action Plan). A copy of the proposed Food Action Plan can be found at: http://vancouver.ca/ctyclerk/cclerk/20031209/rr1.htm

On March 11, 2004, Council approved the formation of a multi-stakeholder Food Policy Council. In order to support the work of the Food Policy Council and other related City work, Council approved funding for staff to realize the work proposed in the Action Plan for Creating a Just and Sustainable Food System for the City of Vancouver (Food Action Plan).

Sustainability Policy

On April 23, 2002, the City adopted a formal position, definition and principles on sustainability to guide the City’s work considering social, economic and social impacts.

On May 24, 2005, Council further approved a definition of Social Sustainability to be used for developing the social component of the City’s sustainability objectives.

On September 20, 2005, Council approved the development of a Social Development Plan for the City of Vancouver, which is aimed at enhancing social sustainability for all of Vancouver’s residents.

PURPOSE

This report informs Council on the work of Social Planning Food Policy staff (APPENDIX A), as well as the Vancouver Food Policy Council work (APPENDIX B). In addition, the report brings forward for Council’s information the Vancouver Recovered Food Assessment as prepared by the Vancouver Food Policy Council (APPENDIX C); a Context and Background document related to the Food Charter as prepared by the Vancouver Food Policy Council (APPENDIX D); and a Food Charter for Council’s adoption (APPENDIX E).

BACKGROUND AND DISCUSSION

Since the approval of the Food Action Plan in December 2003, progress has been made on a number of fronts that have resulted in benefits to our citizens. These include improvements in the areas of social, environmental and economic sustainability, community development and environmental health. The City of Vancouver has begun to emerge as a national leader in municipal food system planning as an extension of the City’s commitment to sustainable development.
On October 20, 2005, City Council received the first progress report from Social Planning and the VFPC. A copy of the 2005 report can be found at:


The October, 2005, report included an update on the activities of Social Planning staff and the VFPC, as well as a summary of the VFPC’s vision, mandate, membership and role in facilitating collaboration between Vancouver citizens and local government. This report details the activities of Social Planning and the VFPC from that date to the present.

1 Social Planning

A detailed listing of concurrent food policy work and future directions as found in APPENDIX A. Work over the last year includes partnerships and collaboration with the Vancouver Food Policy Council, other City departments, and community partners on urban agriculture, education, outreach and civic engagement, and food access.

The update on staff also includes directions for food policy in 2007.

2 Vancouver Food Policy Council

A detailed listing of work priorities and future directions identified by the VFPC as found in APPENDIX B. Priority areas from 2005 to the present include an institutional food purchasing policy for public facilities; strategies to increase access to groceries for residents of Vancouver; strategies to recover, reuse, and recycle food; and a Food Charter for the City of Vancouver.

The VFPC update also includes commentary on the Triple “R” Review, concurrent food policy work by the VFPC in collaboration with Food Policy staff and community partners, and future directions for the Vancouver Food Policy Council.

2.1 Vancouver Recovered Food Assessment

Following the identification of strategies to recover, re-use, and recycle food as one of four priorities for the VFPC, the “waste sub-committee” completed the Vancouver Recovered Food Assessment Report as found in APPENDIX C. The report presents an overview on food recovery practiced in institutions, retail, restaurants, food processing facilities, and charitable food providers. It also includes an inedible food scan featuring on-site residential composting with an overview of the impact of food waste on the environment and legislation for donating food for redistribution.

2.2 Vancouver Food Charter: Context and Background

Many Canadian governments are responding to the growing need for integrated food policy development and food systems planning at the local level. One of the ways they are doing this is by creating municipal food charters.
Municipal governments in Canada that currently have food charters include: Toronto, Sudbury, Ottawa, Saskatoon, Prince Albert, Kamloops, and Merritt. The Capital Regional District (Greater Victoria, BC) and the Province of Manitoba are currently exploring the adoption of regional food charters.

The background information as found in APPENDIX D includes information on food policy in Canadian cities, food policy in the City of Vancouver, examples of issues addressed by a food charter, and opportunities for partnerships.

2.3 Vancouver Food Charter

For the past year, the Vancouver Food Policy Council has been engaging relevant community organizations and individuals to ensure that the proposed Charter, as found in APPENDIX E, represents an inclusive vision. The Vancouver Food Charter presents a vision for a food system which benefits our community and the environment. It sets out the City of Vancouver’s commitment to the development of a coordinated municipal food policy, and animates our community’s engagement and participation in conversations and actions related to food security in Vancouver.

The Vancouver Food Charter includes a vision for the city with five principles to guide our food system: community economic development, ecological health, social justice, collaboration and participation, and celebration.

FINANCIAL IMPLICATIONS

There are no financial implications.

CONCLUSION

The City of Vancouver’s leadership in Food Policy reflects a growing trend towards recognizing Food Policy and Food Policy Councils as among the more dynamic areas of innovation in city governments across North America.

This report recommends that Council receive this report, the report on Social Planning staff, the progress report of the VFPC, the Vancouver Recovered Food Assessment, and the adoption of the Vancouver Food Charter as an inclusive community vision providing principles and guidelines that reflect the City’s commitment to a just and sustainable food system for the City of Vancouver.

* * * * *
Second Annual Social Planning Report
on Food Policy

January 2007
Second Annual Social Planning Report on Food Policy

January 2007

1. Update on the work of Social Planning staff in collaboration with the Vancouver Food Policy Council, other City departments, and community partners:

1.1 Food Production: Urban Agriculture

Some of the recent activities related to the enhancement of Urban Agriculture include:

• Development of Urban Agriculture Guidelines for inclusion in the Green Building Strategy. This includes a review of opportunities to facilitate the creation of roof-top, balcony, and podium resident-shared gardens in private developments for “part 3 buildings” (buildings used for major occupancies classified as assembly occupancies, care or detention occupancies, high hazard industrial occupancies AND for all other major occupancies classification where building area exceeds 600 sq.m or exceeding 3 storey in building height;
• The completion of Phase One of an inventory of under-utilized City-owned properties (other than Park space) to support food growth and community shared gardens;
• Active participation by Social Planning staff in design strategies for new developments and re-zonings to include Urban Agriculture in major developments (Southeast False Creek and East Fraserlands);
• Creation of an expanded food producing and education garden near the City Hall Childcare Centre with links to the Society Promoting Environmental Conservation. The garden was productive throughout the summer of 2006. The garden is part of their daily programming for children aged 3 - 5 years old. Food harvested from the garden has been used for snacks. Excess produce was donated to the Mount Pleasant Neighbourhood House for meal programs and Community Kitchens;
• City Council endorsement of draft operational guidelines and the development of new community gardens in Mount Pleasant, Kitsilano and Arbutus Ridge, utilizing funds from the Community Amenity Contribution (May 15, 2006);
• Including Vancouver’s urban agriculture in the World Urban Forum 2006 with a panel of elected officials from four cities around the world, including Councillor Peter Ladner, in a session entitled “Green and Productive Cities: Innovative Municipal Governance Contributing to Millennium Development Goals”. The City also participated in the coordination of an urban agriculture tour for WUF delegates and Vancouver City Councillors.

1.2. Partnerships and Collaborations

• Social Planning has continued its partnership with the City’s Sustainability Group to collaborate on initiatives and identify emerging opportunities to promote local food system development, such as participation in the Green Building Strategy and contributing relevant material to its “One Day” newsletter.

• Staff have also been involved in the coordination of the last four sub-phases of “My Own Backyard” (MOBY) Community Garden project at East 11th and Commercial Drive. MOBY is a joint project between TransLink, City of Vancouver and the My Own Backyard Community...
Association. For Phases 2 and 3: children’s playground and greenway, staff have been working in collaboration with CityPlans, Park Board and Greenways.

1.3. Education, Outreach, and Civic Engagement

Some of the recent activities involving Education, Outreach, and Civic Engagement, include:

- As a result of the city’s commitment to a just and sustainable food system, Vancouver was selected to host the joint 4th annual Food Secure Canada/Securité Alimentaire Canada meeting and 10th annual Community Food Security Coalition conference “Bridging Borders toward Food Security” in October, 2006.
- With the efforts of more than 50 community volunteers the conference educated citizens about the range of local, national and international community-based food security initiatives, and provided an opportunity for networking and information sharing.
- The conference was attended by 900 community, non-profit, private sector, non-government and governmental personnel representing 11 Canadian provinces and territories, 37 US states, and seven additional countries, such as Mexico, Brazil, Ecuador, South Korea, Kenya, Ireland and Australia.
- The conference was twice the size of CFSC’s previously largest event held in Seattle in 2001.
- Delegates from Vancouver made up 16% of the total attendees, showing strong interest in work of the Vancouver Food Policy Council as well as work from around North America.
- Social Planning staff and community volunteers developed nine individual tours to highlight successful food security efforts including: Community Gardens, Farmers Markets, City Farmer, UBC Farm, The Urban Aboriginal Community Kitchen Garden, Carnegie Centre, The Dug-Out, Chinatown, Granville Island, Mole Hill, and three successful small scale food enterprises such as Potluck Café, Small Potatoes Urban Delivery and The Cook Studio Café;
- Staff also collaborated with community agencies to present workshops on Food Charters, Food Policy Councils, community urban agricultural initiatives, the City of Vancouver’s agricultural initiatives, urban Aboriginal programs, fruit tree harvesting projects, and community food assessments;
- Collaboration with the City Contracting Specialist (Ethical Purchasing) in the delivery of a City Learn course on ethical purchasing. The purpose of the course is to educate staff involved in the decisions or recommendations as to where their department or Branch should be buying agricultural products, clothing, uniforms, or apparel items. Social Planning staff contribute to the food-related aspects of the course;
- Continued development of an enhanced website, weekly electronic bulletin, and quarterly newsletter featuring updates on the VFPC, work of Social Planning staff, community information, and general food system information as an education and networking resource.

1.4. Food Access

- Social Planning has worked with the Vancouver Coastal Health Authority’s “Community Food Action Initiative” to develop a report on Indicators of Food Insecurity and Action Plan in Vancouver. The report builds on the work of the Forum of Research Connections’ Vancouver Food System Assessment. The Vancouver Food System Assessment can be found at: http://vancouver.ca/foodpolicy/tools/pdf/vanfoodassessrpt.pdf
Staff support has also been provided to nine Vancouver Neighbourhood Houses for the “Plant-A-Row for the Community” program. The program teaches gardening skills and encourages urban gardeners to plant extra food and donate it to their local Neighbourhood House. Garden fresh produce donated to Neighbourhood Houses go directly into their preschool, after-school, youth, single parent, immigrant and senior programs.

2. Directions for Food Policy in Vancouver in 2007

- The 2,010 food producing garden plots by 2010 initiative. Strategies are being developed for inter-departmental and external partnerships to add the additional 2,010 food producing plots to the 950 that currently exist in Vancouver’s community gardens.

Other important food related initiatives include:

- Funding partnerships with the Vancouver Coastal Health Authority to increase the number of food-producing community gardens in neighbourhoods with populations vulnerable to food insecurity, as identified in their Community Food Action Initiative Three-Year Action Plan;
- Develop city-wide urban agriculture guidelines to include edible landscaping into private and public space; opportunities for Farmers Markets in new developments; preservation of green space for community-shared gardening activities;
- Continue inventory of under-utilized publicly owned lands for potential urban agricultural uses;
- In conjunction with the Green Building Strategy Tech Team, complete citywide urban agricultural guidelines for “Part 3” and other high and medium-density buildings;
- In collaboration with Vancouver Coastal Health, the Vancouver Engineering Department and the “binning” community, develop strategies to decrease food going to landfill by diverting it to charitable food providers;
- Upcoming stakeholder consultations on the Social Development Plan will include the Vancouver Food Policy Council and role of the Vancouver Food Charter as a definition of a just and sustainable food system in the development of strategic directions for the Social Development Plan;
- Continue to enhance the web presence of the Food Policy Council and work of Food Policy staff as an education and networking resource.
Second Annual Report on the Progress of the Vancouver Food Policy Council

January 2007
Second Annual Report on the Progress of the Vancouver Food Policy Council

January 2007

1. Update on the progress of the Vancouver Food Policy Council, including their priority work areas:

The Vancouver Food Policy Council identified four priority work areas in January, 2005 for their two-year plan, including:

A. Institutional Food Purchasing Policy for public facilities
B. Increasing Access to Groceries for residents of Vancouver
C. Food Charter for the City of Vancouver
D. Recovery, Reuse, and Recycling of Food

A. Institutional Food Purchasing Policy for Public Facilities:

Progress to date: The Institutional Food Purchasing Policy sub-committee has compiled an extensive background document highlighting best practices in other jurisdictions. Based on this document, a policy brief has been developed and circulated for feedback with City staff. The sub-committee is reviewing the feedback and determining future steps to move its agenda forward.

B. Increasing Access to Groceries for Residents of Vancouver

Progress to date: the Access Committee supports the Vancouver Food System Assessment Report conducted by a consortium of researchers (Forum of Research Connections or FORC), and suggests that recommendations in the report be considered as objectives, activities, projects and policies for the Food Policy Council to undertake or promote. A copy of the FORC report can be found at:

www.vancouver.ca/foodpolicy/tools/pdf/vanfoodassessrpt.pdf

C. Recovery, Reuse, and Recycling of Food

Progress to date: The Food Waste Diversion subcommittee spent several months collecting primary data on the food waste stream within the City of Vancouver, with recommendations in the following categories:

- Institutions;
- Retail and Restaurant;
- Food Processors;
- Charitable Food Providers;
- On-Site Composting - Residential;
- Food Waste & Environmental Impact;
- Foods and Legislation.
A full report of the research and recommendations for action is attached in APPENDIX C.

D. Food Charter for the City of Vancouver

Progress to date: A proposed Vancouver Food Charter, (attached as APPENDIX E) has been formulated by the Food Charter sub-committee in consultation with community individuals and organizations to ensure that the Food Charter represents an inclusive community vision for a just and sustainable food system in Vancouver. It also provides principles and guidelines that reflect the City’s commitment to a sustainable food system.

In 2006, the consultation process has:

• involved about 200 individuals at seven workshops and community events;
• clarified and refined the context and focus of the document;
• provided opportunities for public education and discussion on food system issues; and
• collaborated with representatives from six other Food Policy Councils from across Canada and the US to present a workshop on developing and implementing Food Charters at the Bridging Borders Toward Food Security conference in Vancouver in October, 2006.

Food charters benefit communities, decision-makers, and the environment because of food’s value to people in their daily lives. Participation in discussions about the food system can activate civic engagement in a way few other issues can. Decision-makers benefit from the increased trust and public interest that result from a more engaged citizenship.

Although food charters are not typically action statements, once they are in place, they can help catalyze actions that create concrete benefits for local economies and for the environment. Supporting local agriculture and food production helps keep dollars in a community, and there are many demonstrable benefits to local economies from the local multiplier effect on food businesses and job creation.

2. Triple “R” Review

In January 2006, City Council established a Roles, Relationships and Responsibilities Review to examine aspects of the City’s governance, including an assessment of criteria for and a process to review its advisory bodies. The Food Policy Council was included in that review.

In November 2006, Council approved the Food Policy Council as a Type A committee (advisory to Council) with the following mandate:

The Vancouver Food Policy Council supports the development of a just and sustainable food system for the City of Vancouver that fosters sustainable equitable food production, distribution and consumption, nutrition, community development and environmental health. The Food Policy Council provides input/advice to the city’s various policy/program initiatives regarding a sustainable food system.
3. Concurrent food policy work by the Vancouver Food Policy Council in collaboration with Food Policy staff and community partners.

Urban Agriculture, Education, Outreach, and Civic Engagement

Some of the recent activities involving Urban Agriculture, Education, Outreach, and Civic Engagement, include:

- Hosting a Public Food Policy Forum in November, 2005, attended by over 100 community members as an opportunity for communication and information sharing;
- In collaboration with City Council, the Food Policy Council acts as a key partner in the motion to create 2,010 new food producing garden plots by 2010 as an Olympic legacy (May 30, 2006);
- Presentation by Food Policy Council members in four workshops at the Bridging Borders Toward Food Security conference on the following topics: food charters, Food Policy Councils, urban agricultural Initiatives, and community food assessments.

4. Future directions for the Vancouver Food Policy Council

In November 2006, the Food Policy Council held a full-day strategic planning session. The objectives gleaned from that session included the following:

- Make the 2010 community gardens a showcase for innovative approaches to community food security and economic, social and environmental sustainability;
- Obtain City Council endorsement of the Vancouver Food Charter by the end of 2007 and use the food charter as a tool to catalyze coordination of work plans with Social Planning, Office of Sustainability and other city departments around the issues of food security and sustainability in 2008;
- Position the VFPC as a bridge between the community and the City of Vancouver for community food security issues;
- Define the roles, responsibilities and relationship of the VFPC, Food Policy Staff, and Social Planning and define our relationship to City Council and other City Departments by the end of 2007.
Vancouver Recovered Food Assessment

May 13, 2006

Prepared by:
The Vancouver Food Policy Council
Food Diversion Subcommittee:
Susan Kurbis
Brian Holl
Sue Moen
Heather Pritchard

Research Team:
Robyn Spencer B.A.
Nicole MacDonald B. Sc.
Peter Glaser B. Sc.
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Appendix
SECTION 1: Food Recovery and Diversion Overview

Food Recovery & Diversion

CONTEXT:
Initiated in 2004, The Vancouver Food Policy Council’s mandate is to support the development of a just and sustainable food system for the City of Vancouver that fosters equitable food production, distribution and consumption; nutrition; community development and environmental health. The VFPC mandate is to act as an advocacy, advisory and policy development body on food system issues within the City’s jurisdiction by providing information, options and recommendations.

The specific purpose of the food waste & food recovery subcommittee is to identify opportunities & barriers for recovery, reuse, and recycling (composting) of food. We have engaged in an assessment of current programs and policies that affect food use/waste, we have identified some barriers and opportunities for action within the city’s jurisdiction to act. Outlined here are recommendations that could lead to a reduction in food waste as landfill inputs, increase edible food recovery, as well as an overall reduction in the environmental impact of food. We recommend engaging in a full cost benefit analysis of the food diversion stream for the City of Vancouver and to focus resources where it will have the greatest impact on the food stream: both at a food diversion level & environmental impact level. Currently the GVRD is in the midst of a waste stream assessment and other recommendations will be forthcoming in the coming year(s). This document is intended to spark discussion about how the City of Vancouver can act to improve food diversion. Potential opportunities are outlined in the recommendations. (See appendix for detailed information on the scope & scale of the research conducted for this report).

METHODS FOR FOOD DIVERSION ASSESSMENT:
This assessment used primary data sources through interviews, surveys, case studies, and a literature review of food system reports within the City and GVRD. We focused on retail, restaurants, institutions, food processors, and charitable food providers as well as residential composting and the overall environmental impact of the food waste stream. This is in no way a complete assessment but rather a scan of the current situation and opportunities for potential action and further study. To be statistically accurate a comprehensive survey with a 10% respondent rate would be required and is far beyond the scope of the sub-committee.
1.1 INSTITUTIONS: SUMMARY

Total Institutions Surveyed: 6
Sources of food waste: Mostly plate scraps & leftovers, produce trimmings, produce gone bad

Institutional analysis and assessment is key to understanding the City of Vancouver Corporation's food diversion situation. The COV is an institution with numerous food inputs and food outputs that need to be assessed for recovery (edible) and diversion (inedible). A COV food assessment has never been completed. To help create a basis of comparison we looked at 6 other institutions where we determined that 2 out of 6 were participating in food recovery programs and 3 out of 6 were participating in food waste diversion for compost. (see case study – UBC)

Recommendations:

1. Develop & implement a COV corporation food separation, recovery and diversion program
2. Engage in a communication strategy to identify & promote best practices in food diversion for municipal & other government run institutions.

a) INSTITUTIONS: EDIBLE FOOD WASTE

<table>
<thead>
<tr>
<th>Institutions - Edible Food Waste</th>
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<tbody>
<tr>
<td>Edible Food</td>
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<tr>
<td>Currently composting:</td>
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<tr>
<td>Would consider composting:</td>
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BARRIERS:
- Some institutions believe the risk of contamination is too great to recover food for charities.

1 The Sustainability Office of the City of Vancouver is currently engaging in a waste audit of COV facilities and advising on new strategies to reduce waste which will be implemented and managed by the facilities manager (Spring 2006).
b) INSTITUTIONS: INEDIBLE FOOD WASTE

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<thead>
<tr>
<th>Institutions - Inedible Food Waste</th>
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<tbody>
<tr>
<td>Inedible Food</td>
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<tr>
<td>Currently composting food waste: 3 / 6</td>
</tr>
<tr>
<td>Would consider composting food waste: 3 / 6</td>
</tr>
<tr>
<td>Currently giving food away for animal feed: 1 / 6</td>
</tr>
<tr>
<td>Would consider giving food away for animal feed: 3 / 6</td>
</tr>
</tbody>
</table>

**BARRIERS:**
- Food diversion at the source is very problematic. There is a need to implement a system that effectively sorts waste and ensures contaminants (plastics, forks, etc.) are removed.

**ANALYSIS - Inedible Food Waste**
- Large institutions are generally aware of the idea of diverting inedible food for a composting program and are considering it.
- Many institutions use the same food service contractor within multiple facilities (and have a central food service coordinator), making it easier to initiate composting systems over a large scale.
In the summer of 2004, The University of British Columbia began using a large-scale (4-5 tonnes per day) in-vessel compost unit located on the South Campus at UBC. The fully enclosed system allows for a controlled and accelerated process with no chemicals required ensuring optimal temperatures, moisture and oxygen levels for maximal rates of microbial decomposition of the food waste, and also eliminates the risk of odors and rodents. The main goal of the in-vessel project is to divert UBC’s compostable materials from the landfill via the in-vessel composting and using the finished compost on campus landscapes to promote a sustainable closed-loop process. Environmentally the project, increases the environmental effectiveness of UBC’s solid waste management, eliminates the need to purchase chemical fertilizers (mature compost will be applied to UBC campus grounds) and decreases the number of trips made to the Vancouver Transfer Station, Urban Wood Waste and Richmond BioRecovery by 54%.

Approximately 70% of the UBC’s waste stream is made up of compostable materials, with an average of 1900 tonnes of compostable waste each year including: food waste, residual paper products, animal bedding, animal waste, wood, yard waste and sawdust. In the last fiscal year, UBC diverted 97.5 tonnes of campus food waste (cooked food waste, meat and bones, dairy products, grains, bread, raw fruit and vegetables, coffee grounds, tea bags, and eggs shells). Currently, UBC collects all post and pre consumer waste in the residence dining rooms, which serve approximately 2500 student daily from September to April. By September 2006, an organic waste program will be in place for all Food Services units.

The greatest challenge with the in-vessel system is contamination of organic waste bins. It is not uncommon to find non-compostable items in the green bins, like plastics or metals in the organic bins, which can jam up the machinery and break the mixers. This contamination costs money to fix and means that the composting system is out of order meaning that organic waste is diverted elsewhere. Other items that don’t necessarily break the machinery include juice boxes, milk cartons and plastic jam containers, and however these items contaminate the final compost product. To deal with contamination in the end product, UBC filters the soil so that contaminated items are screened out.

UBC does not currently have any arrangements for the recovery of edible food as they believe that the risk in food contamination after food pick up is great. Furthermore, UBC claims that there isn’t any policy or law to protect them from secondary contaminations after food leaves their facilities. However, at large special events, special arrangement is made regularly with the local food bank and kitchens.

2 Rachel So, Communications Manager, UBC Waste Management. April 24th, 2006 at 11:00am.
4 Rachel So, Communications Manager, UBC Waste Management, Monday April 24th, 2006 at 11:00am.
5 Juliana Campbell, Marketing Coordinator, UBC Food Services. April 24th, 2006 at 10:55.
6 Ibid.
8 Communications Manager, UBC Waste Management, Monday April 24th, 2006 at 11:00am.
9 Juliana Campbell, Marketing Coordinator, UBC Food Services. April 24th, 2006 at 10:55.
10 Juliana Campbell, Marketing Coordinator, UBC Food Services. April 24th, 2006 at 10:55.
1.2 RETAIL & RESTAURANT: SUMMARY

Most Retail Grocers surveyed (nine out of ten) give edible food away to food recovery programs: Quest & Food Runners, or to individual groups or people in need. Four out of eight restaurants surveyed give food away to similar programs. Inedible food waste was separated for composting in six out of the 10 businesses surveyed. Produce from large retailers was not diverted for composting because: too little waste, a low understanding of options for composting, & no safe way to store inedible food waste before diversion to composting. We found only one of the eight restaurants we surveyed diverted their food waste for composting.

Recommendations:

1. Opportunities exist for diverting inedible food waste for compost & could be pursued with the help of the city at both the retail grocer & restaurant level. For example, a “Compost Hotline” &/or similar education and resource program could be implemented to support businesses who want to divert food for composting, (focused at the commercial sector).

2. When business licenses are given to restaurants & retailers an education brochure explaining food diversion and food safe techniques could be included that outlines options for diverting edible and inedible food from the landfill in a safe way ex: List food charities accepting edible diverted food (updated annually) & outline the process to divert food waste².

a) RETAILERS

Total Retail Grocers Surveyed: 10 Large (“big-box”, chains): 4; Medium: 3; Small (produce markets): 3

Main Sources of food waste: Plate scraps (restaurants), expired deli items (grocers), produce (trimmings and expired)

RETAILERS: EDIBLE FOOD WASTE

<table>
<thead>
<tr>
<th>Retailers - Edible Food Waste</th>
<th>Currently giving food away: 9 / 10</th>
<th>Would consider giving food away: 1 / 10</th>
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</thead>
<tbody>
<tr>
<td>Edible Food</td>
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<td></td>
</tr>
<tr>
<td>Currently diverting edible food for composting: 3 / 10</td>
<td>Would consider diverting edible food for composting: 2 / 10</td>
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</tbody>
</table>

BARRIERS:

- Storage for external pickup of food waste
- Storage and space for onsite composting of diverted food waste
- Volume too small to be worth while for setting up a composting system or a diversion system

² The Greater Vancouver Regional Solid Waste Management Plan 1995: “The GVRD will require IC&I waste generators to prepare waste audits and waste reduction plans (except for those generators that fall below the threshold). The GVRD will provide guidance and other assistance in the preparation of those waste audits and waste reduction plans. If necessary to achieve 3Rs objectives, one possible mechanism to consider is linkage of the waste audits and reduction plans to business licenses. The cost of conducting waste audits and preparing waste reduction plans will be the responsibility of the waste generators and will be reflected in their operating expenses”.

RETAILERS: INEDIBLE FOOD WASTE

<table>
<thead>
<tr>
<th>Inedible Food</th>
<th>Currently diverting for composting: 6 / 10</th>
<th>Would consider diverting for composting: 1 / 10</th>
<th>Currently giving food away for animal feed: 1 / 10</th>
<th>Would consider giving food away for animal feed: 2 / 10</th>
</tr>
</thead>
</table>

BARRIERS:
- (Management) Time involved in familiarizing with options, setting up system
- Unpleasant smells from storing food waste &/or composting food on site over time

ANALYSIS:
- Majority of food waste is produce and can be diverted to make compost
- Almost all retailers giving food away either to food bank, food runners, staff or customers in need
- 50% of large stores surveyed did not divert food waste to make compost due to lack of knowledge regarding services or because they believe it is not practical in terms of storage and/or cost
- Smaller retailers believe they do not have enough food waste to make food diversion for composting worth while
- Managers and owners of retail stores interviewed were not knowledgeable regarding food waste options
- Larger stores (3/4) indicate they do not have space to store food waste until pick up
- Smaller and medium size stores (4/6) do not believe they have enough food waste for diversion to composting or for use as animal feed
- Retailers largely use the services of Superior/ IBR

Case Study on Edible Food Waste: Safeway

Safeway is one of the largest grocery retailers in Canada and the US with approximately 1,200 stores. There are 122 stores in British Columbia with 10 stores in Vancouver.

Prior to the formation of “food banks”, Safeway gave away edible food to local soup kitchens1. Currently, edible food is given to members of the Canadian Food Bank Association, with 10 million dollars worth of food being donated in BC alone2. In Vancouver, edible food is picked up daily, weekly or bi-weekly by members of the Canadian Food Bank Association or on certain occasions, Safeway will deliver to local food banks if space and time permit it.

Vancouver stores are not diverting food waste for composting. They started diverting food waste for composting in 1994 but due to recent contamination (plastics in organic waste) waste management facilities were refusing to take the waste. In the next few months (2006), Safeway hopes to have a new system in place modeled from Alberta. The Alberta system sends inedible food waste to local Correctional Facilities where inmates engage in a composting system for the food waste as part of their rehabilitation. In the Alberta model, the finished compost is sold for a profit with the proceeds being donated to Safeway’s Because We Care program.

1 Mark White. Safeway Calgary Head Office. April 20 at 10:30am
2 Scott Gibney. Safeway BC Head Office. April 6, 2006 at 1:30pm
Case Study on Inedible Food Waste: Capers Community Markets

Capers Community Market began operation in 1985 in West Vancouver with one location. Now expanding, Capers has two locations in Vancouver with another opening later this year1.

Through recycling, Capers on Robson diverts 138 tonnes of waste from the landfill each year and that saves Capers approximately $7,5002. Recycling food waste became a priority for Capers more than a decade ago. Although it cost Capers additional money for pick up ($400-500/month) they believe it is the right thing to do. Initially produce was the only recovered food waste, but over time deli and bakery food were also included. Inedible food is picked up in approximately 12 gallon bins for diversion to composting 2-3 times a week by Smith Rite3. The organic waste picked up by Smith Rite goes to Carney’s Waste Disposal (http://www.carneyswaste.com/compost_facilities.htm). The organic waste includes PLA NatureWorks containers made from corn which are completely biodegradable in 47 days. The lifecycle of NatureWorks PLA (from corn planter to the retail counter) can reduce fossil fuel consumption by up to 50 per cent, and the process to make it generates 15 per cent to 60 per cent fewer greenhouse gases than the petroleum-based plastic material it replaces.

Capers works with Union Gospel Mission and the Vancouver Food Bank (via Food Runners) to have selected edible food diverted through a pick up and redistribution program.

2 The Greater Vancouver Regional District. Smart Steps Case Study. Available online: http://www.gvrd.bc.ca/smartsteps/pdfs/CaseStudy-Restaurants.pdf
3 Mary Lynn Assistant Store Manager Robson Street April 9 and 20, 2006.

b) RESTAURANTS
Total Restaurants Surveyed: 8 Large (chains): 2; Medium: 2; Small: 2; Fast food: 2
Main Sources of Food Waste: Meat/ dairy, produce, other perishable items

RESTAURANTS: EDIBLE FOOD WASTE

<table>
<thead>
<tr>
<th>Restaurants - Edible Food Waste</th>
<th>Currently giving edible food away: 4 / 8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Edible Food</td>
<td>Would consider giving edible food away: 1 / 8</td>
</tr>
<tr>
<td></td>
<td>Currently diverting food for composting: 1 / 8</td>
</tr>
<tr>
<td></td>
<td>Would consider diverting food for composting 1 / 8</td>
</tr>
</tbody>
</table>

BARRIERS:
- Main barrier is education; many places are not familiar with options for giving edible food away
- It is not feasible for their business in terms of cost, time and location of restaurant
- There is not enough left over to warrant giving edible food away
RESTAURANTS: INEDIBLE FOOD WASTE

<table>
<thead>
<tr>
<th>Restaurants - Inedible Food Waste</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Inedible Food</td>
<td></td>
</tr>
<tr>
<td>Currently diverting food waste for composting:</td>
<td>1 / 8</td>
</tr>
<tr>
<td>Would consider diverting food for composting:</td>
<td>1 / 8</td>
</tr>
<tr>
<td>Currently giving food waste away for animal feed:</td>
<td>0 / 8</td>
</tr>
<tr>
<td>Would consider giving food waste away for animal feed:</td>
<td>2 / 8</td>
</tr>
</tbody>
</table>

BARRIERS:
- Lack of education about options for food diversion is a significant barrier among restauranteurs
- Many believe there is not enough waste to make food diversion for composting or for animal feed worthwhile
- Cost and time

ANALYSIS:
- Smaller and medium restaurants have less food waste because they are purchasing food more often (daily), therefore only buying what they need they generally do not have any spoiled food & do not require food diversion alternatives to the landfill.
- There is a perception that food waste removal companies will not pick up food diverted from restaurants if there isn't sufficient quantity to make it cost effective this was not substantiated through our interviews with waste companies however (see case study IBR/Superior).
- One restaurant has investigated options & has concluded that none are suitable
- Food is sold in specials through discounted price (day olds)
Case Study: The NAAM

The NAAM has been working on responsibly managing their food waste for almost 15 years. Since then, they have reduced the volume of waste going to landfills by about 240 cubic meters per year.

In addition to recycling non-food items such as glass and tin, the NAAM began a comprehensive organics management program. Trimmings from food preparation as well as scraps from unfinished plates (including the unbleached napkins) get separated and placed into a 2 cubic yard bin that gets picked up twice weekly by Superior Disposal Ltd. Over the course of a year, they estimate that over 100 tonnes of organic waste is being diverted & composted. Composting organics comes at an additional cost to the NAAM, however they feel this is their responsibility to manage their waste properly.

Bob Woodward, the NAAM’s owner, stresses that developing the system and the habits to separate organics from other waste is not difficult.

1.3 FOOD PROCESSORS: SUMMARY

Total Surveyed: 9 (Microprocessors: 4; Small Processors: 2; Large Processors: 3)
Main Sources of Food Waste: produce, already prepared perishable items, meat/ dairy

We surveyed 9 food processors and found that most small-scale food processors indicate they have very little waste for both edible and inedible food diversion.

Recommendations:
1. Have multilingual food diversion and food safe education brochures available to small-scale processors.
2. The amount of food waste is small & therefore requires a food diversion system that can accommodate small amounts of food waste – Being aware of options available will help small scale processors divert food waste. (see recommendation to develop an education program through a compost hotline for the commercial sector and/or possibly a compost co-op model)
3. The current COV waste bin space allocation requires updating for businesses who want to divert food waste, (COV licensing), ex: COV permitting related to business waste bins is not well enforced & requires monitoring.
4. Assess economic development opportunities from food diversion with the support of the Vancouver Economic Development Commission (www.vancouvereconomic.com).

a) FOOD PROCESSORS: EDIBLE FOOD WASTE

<table>
<thead>
<tr>
<th>Food Processors - Edible Food Waste</th>
<th>Currently giving food away: 3 / 9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Edible Food</td>
<td>Would consider giving food away: 3 / 9</td>
</tr>
<tr>
<td></td>
<td>Currently composting: 0 / 9</td>
</tr>
<tr>
<td></td>
<td>Would consider composting: 0 / 9</td>
</tr>
</tbody>
</table>

BARRIERS:
- Small processors feel they have too little food waste for it to be feasible to give it away/ or to divert it for composting.
- One tried giving edible food to food banks – they were told food banks did not want perishable food
- Language barrier: many people answering phones/ questions at the food processors did not have English as a first language

3 Eisler, Corrine. Senior Nutritionist Vancouver Coastal Health Authority. An education brochure on food safety for both donors and recipients of extra food should be put in place to minimize hazards associated with unsafe food.
ANALYSIS:
- Edible food is being given away locally and informally (given to customers as samples, given to families that owners/employees know, neighbors coming around asking, etc).
- There is a lack of education of options for giving food away (not aware of the perishable food bank services (QUEST, food runners))

b) FOOD PROCESSORS: INEDIBLE FOOD WASTE

<table>
<thead>
<tr>
<th>Food Processors - Inedible Food Waste</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Inedible Food</td>
<td></td>
</tr>
<tr>
<td>Currently diverting food waste for compost:</td>
<td>1 / 9</td>
</tr>
<tr>
<td>Would consider diverting food for compost:</td>
<td>5 / 9</td>
</tr>
<tr>
<td>Currently giving food away for animal feed:</td>
<td>0 / 9</td>
</tr>
<tr>
<td>Would consider giving food away for animal feed:</td>
<td>3 / 9</td>
</tr>
</tbody>
</table>

BARRIERS:
- Small processors feel as though they have too little food waste to be diverted
- There is a lack of awareness of options
- Lack of management time – food diversion is not a priority (no incentive or pressure)
- One bad experience with food diversion can completely eliminate it for consideration in the future. Ex: One produce manufacturer tried to give it to a pig farmer for feed but was told the peels were too acidic to be used and therefore gave up.

ANALYSIS:
- Developing a small scale community or small business scale composting system for disposal/ pick up might make food diversion seem more viable for the smaller processors, retailers, etc.
- There is not a lot of incentive (cost, regulations, feel good factor, etc) for processors to invest time to set up systems. COV support could be made available by developing extremely simple and easy to use systems for the commercial sector.
Food Distributor Case Study: Discovery Organics

Discovery Organics is a certified organic produce distributor for the past 8 years, representing certified organic produce grown within British Columbia, and elsewhere. They emphasize the use of local organic produce, and for the first 6 years, Discovery organics only distributed local organic British Columbia produce. However, in the last 2 years they have started to sell imported organic produce when local is not available. Produce is sold and delivered across Western Canada to retailers, co-ops and buying clubs. Discovery Organics also operates a 21-acre certified organic vegetable farm in the Fraser Valley.

Since the beginning of Discovery Organics in 1998, they have been committed to recovering and diverting edible and inedible food. Edible food is picked up a weekly basis by UsMoms and Ray-Cam Community Centre. Larger amounts of food that are edible but cannot be sold to retailers are picked up by Quest Outreach. Discovery organics also offers discounted produce for Carnegie Centre, a low cost meal provider. Inedible food is picked up weekly by 2 local organic farms for animal feed and for composting. It is estimated that Discovery Organics gives away $1000 worth of food a week.

Source: Interview with Anne Moss, Owner Discovery Organics. April 25th 2066. 11:30
1.4 CHARITABLE FOOD PROVIDERS: SUMMARY

Total Surveyed: 37

The majority of charitable food providers use some recovered food. This demonstrates that this is a food source for poverty relief in Vancouver. We surveyed 37 of these providers to find out their perceptions of recovered food. The unreliability of quality & quantity was problematic for most who received recovered food. A centralized distribution and quality control mechanism may address this issue as well as food donor education & awareness.

Recommendations:
1. Support a mechanism to ensure quality, safety, and reliable distribution for recovered food in Vancouver.
2. Support a food donor education & awareness program possibly linked to business licensing.
3. Assess the practice of charging charities for recovered food.

a) RECOVERED FOOD USERS SCAN: CHARITABLE FOOD PROVIDERS

Chart 1.4.1: Emergency food providers using recovered food

<table>
<thead>
<tr>
<th></th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Respondents</td>
<td>54%</td>
<td>46%</td>
</tr>
</tbody>
</table>

Recovered Food Users

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5 Food is a basic human right. Everyone should have access to safe, nutritious, culturally appropriate food. A coordinated effort is required to supply adequate food to Vancouver’s residents in a dignified manner.
Chart 1.4.2: Sources of Recovered Food

<table>
<thead>
<tr>
<th>Sources of Recovered Food</th>
<th>0</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
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</thead>
<tbody>
<tr>
<td>Food Runners</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quest</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Starbucks</td>
<td></td>
<td></td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Safeway</td>
<td></td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cobbs</td>
<td></td>
<td></td>
<td></td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Capers</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Catering Companies</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other/ Community</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
<td>2</td>
<td>1</td>
</tr>
</tbody>
</table>

BARRIERS:

**QUEST**
- Volumes of food not always appropriate
- Not as convenient due to a min. 100 dollar order to get delivery
- Sometimes items are really dated (quality not great) & staff would be uncomfortable serving it
- Confusion among management, communication wasn’t clear

**Food Runners**
- Hard to know what you are getting in the deliveries so can’t plan around it (hard to assume you are going to get what you need to cook with)

**Legislation/Nutritional Standards**
- Perception that recovered food is not up to standard, so haven’t considered using it.
- HIV/ AIDS nutritional standards don’t allow the use of recovered food (comprised immune systems of patients – have to be extra careful)

**Other**
- No longer using recovered food because we have secured funding (and so feel other organizations are more in need)

ANALYSIS:

- Organizations who charge for meals don’t generally receive donations from QUEST/ food runners as they can operate off their own revenues.
- There are some issues with charities about giving food away that is low/poor quality & also some problems with paying for recovered food.
Case Study: reFUSE

For the past 4 years, reFUSE has been a full service Organics Recycling in Victoria committed to recovering and recycling organic discards from grocers, hotels, restaurants, institutions and private households from Victoria to Nanaimo. Approximately 99% of reFUSE’s client base is commercial with about 20% of that being institutions such as the University of Victoria and Camosun College. They service 12 Government buildings, and many large restaurants and hotels in Downtown Victoria. Commercial customers use reFUSE for scheduled or on-call pickup services for food waste. About 1% of their business comes from residential customers that use reFUSE services for yard waste, while others use them to pick up their kitchen food waste. reFUSE uses cube vans that are able to pick up different streams of waste (garbage, recycling and organics) at once, allowing them to give a discounted rate for customers that use all of their services. Many customers that use reFUSE for all of their waste management needs reported a cost savings of 10-15% per year. Customers with large quantities of waste pay a fee per weight, while customers with less waste pay a flat rate. They offer a full-service weekly collection programs start as low as $35 per month and they also provide training and resources sand storage totes to get started.

Organic waste collected by reFUSE is taken to their new waste management site in Cobble Hill where it is composted to be made in to a profitable soil. reFUSE has only owned the land at the Cobble Hill location for 6 weeks and is in the process of getting a waste management license that will allow them to house the compost in building which will accelerate the decomposition process and eliminate odors. The capacity at Cobble Hill is 136 000 tonnes a year, with current estimates sitting around 18 000 tonnes leaving reFUSE able to expand their client base. With a capacity of 136 000 tonnes a year reFUSE is able to service all commercial companies and all curbside waste in Victoria.

Some barriers that customers believed were stopping them from accessing reFUSE service included: cost, storage, education and amount of waste. To overcome barriers to their service reFUSE offers competitive rates, storage totes, training and resources to educate staff, and offer frequent picks from 1-3 times a week depending on needs.

2 Ibid.
3 Ibid.
4 reFUSE. Finding Waste to Change. Available online: http://www.refuse.ca
In the GVRD 2002 Annual Report it was estimated that the amount of organics diverted through the use of backyard composters was estimated at 250 kg/year/household. In 1999 a Vancouver survey conducted indicated that about 36% of single-family properties in Vancouver have and use a backyard composter. Research indicates that the level of on site composting at the residential level is near saturation and that further increases may be small. All programs focused at single family homes are well utilized, (City Farmer & Compost Hotline).

Recommendations:
1. Engage in a focus group with City Farmer and other municipal residential compost educators & municipal/GVRD staff to assess future steps for the sector.
2. Engage in a full cost benefit analysis of focusing more resources at the residential sector within the context of the overall food waste stream for the City of Vancouver. Focus resources where it will have the greatest overall impact on the food waste stream: both at a food diversion level & environmental impact level.
3. Develop and implement a vigorous public awareness campaign in combination with garbage quantity restriction campaigns.

**ORGANIC WASTE STREAM (for the Region)**
- Food waste (backyard compostable such as fruits and vegetables) contributes to 7.88% of the waste stream, 39.32 kg/person/year, a total of 83 622.23 tonnes of waste being added to the landfill per year.
- Other food waste such as meats, breads, dairy, and fats contribute to 8.59% of the waste stream, with 42.84 kg/person/year with 91 101.90 tonnes added annually.
- In total, food waste contributes to 16.47% of waste found in GVRD landfills.
- 46.66% of curbside waste is organic.
- 46.97% residential drop off waste is organic waste.
- 37.86% of industrial, commercial, and institutional waste is organic.

**COMPOSTING**
- Since 1990 the City of Vancouver has sold approximately 36,900 backyard composters for a subsidized rate of $25.
- That is about 43% of the single-family properties in Vancouver.

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8 Moffit, Lindsay - Recycling Coordinator Solid Waste Management. <lindsay.moffit@vancouver.ca> “Home Composting in Vancouver” Personal Email. (April 7, 2006)
There is also an unknown percentage of people who bought composters through retail outlets or built their own.

In terms of use, a Vancouver survey conducted in 1999 indicated that about 36% of single-family properties in Vancouver have and use a backyard composter.

Vancouver has sold 3,900 worm compost bins, which is about 3% of the 130,000 multi-family dwelling units.

GVRD surveys have shown that about 57% of single-family properties actually own a composter.

In the GVRD 2002 Annual Report it was estimated that the amount of organics diverted through the use of backyard composters is estimated at 250 kg/year/composter.

GVRD surveys have shown the following in terms of use:

Chart 1.5.1: Backyard Composter Use in the GVRD

BARRIERS: Residential Composting
- There is a perceived upper limit to the number of people that are willing to get involved in backyard composting and we may be near to reaching that limit in the opinion of City staff.
- Residents of multi-family dwellings may find worm composting inconvenient or a hassle because of space constraints and issues of where to put soil when fully decomposed.
- Other issues are time and interest, some people believe they are too busy.

OVERCOMING BARRIERS: Residential Composting
- Thousands of GVRD and Vancouver residents access the services provided by City Farmer via the regional hotline and City workshops, outreach events, talks, and media events to become informed. However more people could be reached.
- Educate residents to motivate them to owning and using a backyard composter or worm composter.

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9 Moffit, Lindsay - Recycling Coordinator Solid Waste Management. <lindsay.moffit@vancouver.ca> “Home Composting in Vancouver” Personal Email. (April 7, 2006)
11 Levenston, Mike - City Farmer. <cityfarm@interchange.ubc.ca> “Home Composting in Vancouver” (April 7, 2006)
12 Ibid.
SECTION 2: Food Waste & Environmental Impact

Food waste is part of the solid waste stream and has both negative and positive impacts that can be assessed more systemically by using a full cost accounting method (FCA- see below). Keeping this in mind there are variables that need to be taken into account when assessing the environmental impact of food waste. These costs (or benefits) are borne by (or accrue to) society in general. They are important to the decision-making process: discharges to land, groundwater, surface water and air, effects on local ecology, community effects, remediation or corrective action costs.14

Food waste has had the following impacts that are deserving of further study and action: In 2004, approximately 59,500 tonnes of organic food waste was hauled to the Vancouver landfill.15 This is roughly equivalent to 2644 truck-trips/year at 22.5 tonnes per haul. - 1000g CO2/km. (Based on EPA’s Green Vehicle Guide) GHGs created by trucks transporting food waste - mainly CO2, but other chemical pollutants as well. Methane is 21 times more effective in trapping heat in the atmosphere than CO2 (over a 100-year period).16 Cities are also in need of healthy soil for remediation of toxic soils and/or soil amendments for parks and gardens. Using food waste as compost within the city seems like a desirable option to trucking food out of the city. For example: the intermediate-scale hot composting site at Strathcona Community Garden produces, on average, approximately 20 tonnes of finished compost for every 100 tonnes of organic food waste entered into the system.

Recommendations:
1. Assess the full cost of trucking food waste out of the city by calculating the overall GHG created through transportation as well as calculating escaped landfill gasses that are not a part of the methane recovery program. Incorporate this into the overall environmental impact in reporting.
2. Assess options for increasing composting at the micro-level in Vancouver at schools, community gardens/centers, as well as other institutions (COV, Hospitals, etc) to divert food waste out of the landfill and increase valuable soil remediation options for urban residents.

Case Study: Superior Disposal
Superior Disposal Ltd is a waste management company in Burnaby that picks up 3 streams of waste: organic; garbage; and recycling from Vancouver and Richmond, and occasionally from Maple Ridge. Servicing just over 100 clients, Superior picks up clean organic waste mainly from hotels, restaurants, produce markets and coffee shops. They also service one Government building and a few industrial product facilities. All organic waste, except coffee grounds, is taken to the International Biorecovery plant in North Vancouver. Superior will pick up organic waste in any volume with no minimum pick up requirement. The cost associated with this service is based on weight, on top of a flat fee. In general, restaurants tend to have heavier organic waste than produce markets (25% less weight). There is a discounted rate for customers that use Superior for all 3 services. Superior can provide businesses with a range of collection bin options to help accommodate storage issues. Superior has no problems servicing downtown alleys as they would for their regular garbage pick-up.

Superior has been in business for about 9 years. They have not experienced real barriers to their operations such as odour complaints, capacity, regulations etc.

Case Study: International BioRecovery (Processing)
The International Biorecovery (IBR) plant is a single demonstration plant, located in North Vancouver. IBR processes over 30 tonnes/day of biodegradable food waste with an expected increase of 50-75% in May due to a plant expansion1. IBR produces over 3 tonnes/day of SG-100 (solid granular for commercial production) and over 60 litres/day of LC-200 (liquid concentrate), with a semi-continuous process, with operator monitor and control operating 24 hours/day, 7 days/week2. Organic waste is obtained by multiple drop offs per day from Superior Disposal Ltd. Superior pays IBR a tipping fee of $25 a tonne to dispose of organic waste3. Superior is the main waste management company used because they generally supply the daily capacity of 100 tons or waste4. Now with IBR’s enhanced autogenous thermophilic aerobic digestion technology, biodegradable waste can be converted into environmentally safe soil fertility products in 2-5 days5. Using naturally occurring thermophilic bacteria, IBR’s technology converts organic waste into high quality, pathogen-free, environmentally progressive soil fertility products for use in commercial agricultural, horticultural and turf markets6.

1 Personal Communication Henry- 604-924-1023 Tuesday April 18, 2006 at 1pm
3 Personal Communication Henry- 604-924-1023 Tuesday April 18, 2006 at 1pm
4 Personal Communication Henry- 604-924-1023 Tuesday April 18, 2006 at 1pm
a) GHG Emission Reduction as it Relates to Food Waste

- Two primary concerns regarding greenhouse gas (GHG) emissions as they relate to food waste:
  1. GHGs created by trucks transporting food waste - mainly CO2, but other chemical pollutants as well.
  2. GHGs created by food waste via anaerobic decomposition at landfill sites - mainly methane (CH4).

- 1000g CO2/km. (Based on EPA's Green Vehicle Guide)
- Methane comprises approximately 50% of gas generated at landfills; CO2 comprises the other 50%.
- Methane is 21 times more effective in trapping heat in the atmosphere than CO2 (over a 100-year period).\(^{17}\)
- In Canada, methane emissions account for approximately 12.6% of Canada's CO2 equivalent GHG emissions. Of these emissions, approximately 25% come from landfills.\(^ {18}\)

b) Transportation of Food Waste

- In 2002, approximately 59,500 tonnes of organic food waste is hauled to the Vancouver landfill.\(^ {19}\)
- This is roughly equivalent to 2644 truck-trips/year.
- CO2 is the principal GHG created by fuel-combustion engines. The amount of CO2 generated by each truck trip is difficult to estimate; it depends partly on the type of vehicle used, its energy efficiency, type of fuel used and other factors.
- Truck transport also produces other chemical aerosol pollutants, such as carbon monoxide, ozone and diesel particulate matter.

c) Soil Reclamation and Urban Soil

- In an urban environment, soil reclaimed for plant growth is usually inherited from disturbed sites e.g. vacant lots, former industrial and commercial sites. As a result of this inheritance, most reclaimed urban soils have very limited organic matter.
- In order to have truly healthy soil suitable for plant growth, organic matter is a necessary component. It creates better soil structure and can improve soil fertility by increasing exchange capacity, nutrient element content, biological activity and water retention.
- In an urban agricultural environment, composted food waste created within the urban area can provide significant amounts of this organic matter.
- As an example, the intermediate-scale hot composting site at Strathcona Community Garden produces, on average, approximately 20 tonnes of

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\(^ {17}\) US EPA, 2006, "Methane: Sources and Emissions", Available at www.epa.gov/methane/sources.html
\(^ {19}\) City of Vancouver, Engineering Services, Annual Report 2002, Solid Waste Division, July 2003
finished compost for every 100 tonnes of organic food waste entered into the system.

d) Methane Energy Use and Cool Vancouver Task Force

- The City of Vancouver has been collecting landfill gas at the Vancouver Landfill since 1991.
- In 2003, the City of Vancouver set up the Vancouver Landfill Gas Recovery and Cogeneration Project. The project initially collected about 2,000 cubic feet per minute (cfm) of landfill gas, equivalent to 2,000 tonnes/year of CO2 equivalents but now collects about 3,500 cfm of landfill gas equivalent to 350,000 tonnes/year of CO2 equivalents. Offsets from the beneficial use system account for about an additional 50,000 tonnes per year of CO2 equivalents.
- This project diverts landfill gas (LFG) produced within the landfill into a network of pipelines and transported to a combustion facility that converts the LFG (approximately 50% methane) into heat energy and CO2.
- A portion of the resultant heat energy (100,000 GJ/year\textsuperscript{20}) is then utilized to heat an adjacent CanAgro greenhouse. The remainder is converted into electrical power that is sold to BC Hydro as “green power”\textsuperscript{21}.
- Current projections set this project to be in use for the remainder of the existence of the Vancouver Landfill, around 2040.
- However, the termination of the Cache Creek Landfill site after 2009 will mean the GVRD will need to find an alternative site.

e) Land Use and Cache Creek Expansion

- 450,000 tonnes of Lower Mainland garbage (approximately 40%) currently goes to the Cache Creek landfill.
- This landfill is expected to be full by the end of 2009.
- A current plan for beyond 2008 was for a new landfill site to be created on a portion of GVRD-owned ranchland near Ashcroft. However, the environmental assessment related to this plan was suspended by the provincial government in June 2005, citing that alternatives to the development of this landfill needed to be considered.

Full Cost Accounting (FCA)

Full cost accounting is “an accounting method that seeks to identify, quantify and allocate all costs associated with a process or product, including environmental and other social costs.” (www.theaccountspayablenetwork.com/html/modules.php) In general, this approach to accounting is useful in decision-making because it has the effect of widening the accountant’s ledger.

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\textsuperscript{20} Giga Joule = 1,000,000,000 joules
In the context of solid waste management, full cost accounting is a systematic approach for identifying, summing and reporting of the actual costs of such management, taking into account past and future outlays, overhead and operating costs.

**Ashcroft Landfill Update**
As for the Ashcroft Landfill, the environmental assessment has been suspended by the Ministry of Sustainable Resource Management since June 7, 2005 pending substantial completion of the Greater Vancouver Regional Solid Waste Management Plan amendment process.
SECTION 3: Foods & Legislation

Bill 10 is a comprehensive act that protects people, businesses, etc who are giving food away with an intended act of charity. It is outlined below. Legislation that governs food waste is far less straightforward and can involve all levels of government, (see case study below).

Recommendations:
1. Provide education materials on food legislation as part of the business licensing process as per Bill 10 – Food Donor Encouragement Act
2. Provide education materials on legislative requirements for storing and processing food waste.

LEGISLATION - BILL 10 – FOOD DONOR ENCOURAGEMENT ACT

BILL 10 -- 1997
FOOD DONOR ENCOURAGEMENT ACT
HER MAJESTY, by and with the advice and consent of the Legislative Assembly of the Province of British Columbia, enacts as follows:

Liability of donor
1. A person who donates food, or who distributes donated food, to another person is not liable for damages resulting from injuries or death caused by the consumption of the food unless
   (a) The food was adulterated, rotten or otherwise unfit for human consumption, and
   (b) In donating or distributing the food, the person intended to injure or to cause the death of any person who consumed the food or acted in reckless disregard for the safety of others.

Liability of director, agent, etc.
2. A director, agent or employee of a corporation, or a volunteer who provides services or assistance to a corporation, that donates food or that distributes donated food is not liable for damages resulting from injuries or death caused by the consumption of the food unless
   (a) The food was adulterated, rotten or otherwise unfit for human consumption, and
   (b) In donating or distributing the food, the director, agent, employee or volunteer intended to injure or to cause the death of any person who consumed the food or acted with reckless disregard for the safety of others.

Application of Act
3. This Act does not apply to a person who distributes donated food for profit.

Explanatory Note
This bill is intended to increase the donation of food-to-food banks and soup kitchens by limiting the liability of food donors, distributors and others who participate in the distribution of donated food. The Bill provides that a person who donates food or who distributes donated food is not liable for injuries or death resulting from the consumption of the donated food unless the person intended to injure the recipient of the food or acted recklessly in donating or distributing the food.
Case Study: Composting Regulatory Issues & Education

Ecowaste Industries Ltd.
Ecowaste Industries, formerly Richmond Landfill Ltd., has over 30 years of waste management experience. From 1971 until 1986, Ecowaste operated a municipal solid waste landfill in the City of Richmond on 160 hectares of land owned by the Fraser River Harbour Commission ("FRHC"). As the land of the FRHC became filled, Ecowaste purchased 160 hectares of land next to the FRHC site where the Company currently operates a landfill for construction, demolition and excavation materials. In 1992, Ecowaste opened a windrow compost facility on this site for yard waste. Starting in 1993, and for a period of approximately 2 years, Ecowaste composted "fines" from a dry material recycling facility. In 1994, composting of biosolids began.

While the company does not accept food wastes, it does provide an instructive example of the range of permits and approvals that are (may be) required to operate a composting and waste disposal site. All information outlined in this document was obtained from the company web site (http://www.ecowaste.com/index.htm).

Regulatory Environment:
Ecowaste operates the Richmond Landfill under the following Permits and Licenses.

1. BC Environment
   The company is authorized as a waste management facility under BC Ministry of Water, Land and Air Protection Operational Certificate MR-04922.
   A special waste storage and treatment facility is authorized under BC Ministry of Water, Land and Air Protection Permit PS-16142.
   The Production and Use of Compost Regulation was replaced by the Organic matter Recycling Regulation (OMRR) effective Feb. 5, 2002. Under OMRR Section 3,(2)(a)(i) the regulations do not apply to any composting facility authorized by an operational certificate. Nevertheless, Ecowaste operates this site in accordance with the requirements of OMRR.
2. GVS &DD Disposal Facility License
   The company has been issued a Disposal Facility licence L-005 under the provisions of the Greater Vancouver Sewage and Drainage District Bylaw No. 181/183.
3. GVS&DD Compost Facility licence
   The company has been issued a Compost Facility licence C-007 by the GVS&DD.
4. Environment Canada
   Environment Canada does not have a direct role in the regulation of the facility but is included on the circulation list for any new permits or permit amendments.
5. Design Standards
   The landfill complies with the Landfill Criteria for Municipal Solid Waste issued by the Ministry of Environment, Lands and Parks, June 1993.
6. Pollution Prevention Plan
   In 1997, the company has completed a comprehensive Pollution Prevention (P2) Plan. In the development of this plan, a steering committee was formed composed of representatives from municipal, regional, provincial and federal governments.
7. Environmental Audits
   Independent environmental audits commissioned by Ecowaste were done in November 1992 by Thurber Environmental Consultants Ltd. and in October 1994 by Reid Crowther & Partners (now Earth Tech, Inc.). During 2001, an environmental audit was done by URS Corporation.
   Permit PS-16142 requires an annual environmental audit of the facility by an independent qualified consultant”. Two environmental audits (Environmental Compliance Audit - 2001, Environmental Compliance Audit - 2002) have been conducted by URS Corporation and filed with the BC Ministry of Water, Land and Air Protection.

Ecowaste commissioned the preparation of a compost manual and training program as part of their compliance with the Production and Use of Compost Regulation of BC, the governing legislation at the time (now Organic Material Recycling Regulation). The technical, operational and safety aspects of waste composting were covered in the Ecowaste Composting Manual. Each site operator and senior staff member studied the manual, wrote a self-administered quiz and attended a composting workshop.
**APPENDIX:**

**Report Assumptions:**

1. There is sufficient existing food waste collection, transfer and processing capacity in the City of Vancouver or region.
2. There is adequate demand for the finished product (compost) that would result from food waste being diverted and processed.
3. Expanding food collection and food waste processing may require additional capital funding.

**Research Methodology:**

It is important to note that for statistically significantly research, a 30% sample size is required. However, that is beyond the capacity of the Food Policy Council. Instead, we have divided food waste generators into sub-categories and have sampled each accordingly.

Below is a list of organizations and businesses which were contacted throughout this research:

<table>
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<tr>
<th>Size</th>
<th>Restaurant References</th>
<th>Location</th>
<th>Contact Info</th>
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<td>Large</td>
<td>White Spot 2850 Cambie Tracey 604-873-1252</td>
<td>April 6, 2006, 3pm</td>
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<td></td>
<td>Earl’s 901 West Broadway Laura 604-734-5995</td>
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<td>Medium</td>
<td>The Naam 2724 West 4th Bob 604-738-7180</td>
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<td></td>
<td>Wild Rice 117 West Pender Andrew 604-642-2882</td>
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<td>Small</td>
<td>Vera’s Burger Shack 1030 Davie Fred 778-239-5673</td>
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<tr>
<td></td>
<td>The Morrissey Irish House 1227 Granville Brandy 604-682-0909</td>
<td>April 6, 2006, 2pm</td>
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<tr>
<td>Fast Food</td>
<td>Pizza Town 88 West Pender Walked in- 604-682-8096</td>
<td>April 7, 2006, 11:15am</td>
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<td></td>
<td>Quizno’s 508 Abbott Walked in- 604-915-7357</td>
<td>April 7, 2006, 10:30am</td>
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<tr>
<td>Large</td>
<td>Safeway Canada Head Office- Vancouver Head Office- Calgary Scott Gibney 604-301-2646 Mark White- 403-730-3728</td>
<td>April 6, 2006, 1:30pm and April 18, 2006, 11 am April 20, 2006 10am</td>
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<td></td>
<td>Marketplace IGA 3535 West 41st Bill Seminoff and assistant manager Adrian 604-261-2423</td>
<td>April 6, 2006, 3:30pm</td>
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<td>Buy-low Foods 2083 Alma Street Tom Dubiellak-604-222-8353</td>
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<td>Choices Markets Head office Rick-604-940-8891</td>
<td>April 9, 2006, 11:30am</td>
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<td>Medium</td>
<td>Strong’s Market 4560 Dunbar Glen-604-266-1401</td>
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<td>Santa Barbara Market 1322 Commercial Elena-604-253-1941</td>
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<td></td>
<td>Capers Community Market 1675 Robson Mary Lynn-604-687-5288 Aron Bjorson <a href="mailto:abjorson@capersmarkets.com">abjorson@capersmarkets.com</a></td>
<td>April 9, 2006, 11 am April 20, 2006, 9:45am May 9, 2006</td>
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<td>East-End Co-op 1034 Commercial Susana-604-254-5044</td>
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<td></td>
<td>Benny Food 598 Union Street Ramone-604-254-2746</td>
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<tr>
<td>A Loving Spoonful</td>
<td>Suite 100 - 1300 Richards Street</td>
<td>604-682-6325</td>
<td>March 28th, 2006</td>
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<tr>
<td>Organisation</td>
<td>Address</td>
<td>Phone</td>
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<tr>
<td>Better Meals</td>
<td>3930 Kitchener Street, Burnaby, BC V5C 3M2</td>
<td>604-299-1877</td>
<td>March 28th, 2006</td>
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<tr>
<td>Kosher Meals on Wheels</td>
<td>300-950 West 41st Avenue, Vancouver, BC V5Z 2N7</td>
<td>604-257-5151</td>
<td>March 28th, 2006</td>
</tr>
<tr>
<td>Victoria Order of Nurses – BC Meals on Wheels</td>
<td>1525 West 7th Avenue, Vancouver, BC V6J 1S1</td>
<td>Laura 604-732-7638</td>
<td>March 28th, 2006</td>
</tr>
<tr>
<td>AIDS Vancouver</td>
<td>1107 Seymour St., Vancouver, BC V6B 5S8</td>
<td>604-893-2201</td>
<td>March 28th, 2006</td>
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<tr>
<td>Green Earth Organics</td>
<td>1864 Triumph St., Vancouver, BC V5L 1K2</td>
<td>604-708-2345</td>
<td>March 28th, 2006</td>
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<tr>
<td>Eastside Family Place</td>
<td>1655 William St., Vancouver, BC V5L 2R3</td>
<td>Tracey 604-255-9802</td>
<td>March 28th, 2006</td>
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<tr>
<td>Greater Vancouver Food Bank Society</td>
<td>1150 Raymur Avenue, Vancouver, BC</td>
<td>Will 604-876-3601</td>
<td>March 28th, 2006</td>
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<tr>
<td>Longhouse Church</td>
<td>2505 Franklin St., Vancouver, BC</td>
<td>604-254-4531</td>
<td>March 28th, 2006</td>
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<tr>
<td>Marpole Oakridge Area Council Society</td>
<td>1305 West 70th Ave., Vancouver, BC V6P 2Y6</td>
<td>Tracy 604-266-5301</td>
<td>March 29, 2006</td>
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<tr>
<td>Drop-In Center for Youth (Union Gospel Mission)</td>
<td>1075 Seymour St., Vancouver, BC V6B 3M3</td>
<td>604-688-7587</td>
<td>March 29, 2006</td>
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<tr>
<td>Aboriginal Mother Center Society</td>
<td>208-2019 Dundas St., Vancouver, BC V5L 1J5</td>
<td>Christine 604-253-6262</td>
<td>March 29, 2006</td>
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<tr>
<td>Cedar Cottage Neighborhood House</td>
<td>4065 Victoria Drive, Vancouver, BC</td>
<td>604-874-4231</td>
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<td>Thunderbird Neighborhood Community Center</td>
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<td>Loraine 604-237-2487</td>
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<td>Strathcona Community Center</td>
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<td>604-713-1838</td>
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<tr>
<td>Sheway</td>
<td>533 East Hastings St., Vancouver, BC V6A 1P9</td>
<td>Maria 604-658-1221</td>
<td>March 29, 2006</td>
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<tr>
<td>Living Room Drop-In Activity Center (Lookout Emergency Aid Society)</td>
<td>429 Alexander St., Vancouver, BC V6A 1C6</td>
<td>Joyce 604-255-0340</td>
<td>March 29, 2006</td>
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<tr>
<td>Institution Name</td>
<td>Address</td>
<td>Contact Person</td>
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<tr>
<td>Motivation, Power and Achievement (MPA) Society</td>
<td>1731 West Avenue Vancouver, BC V6J 1M2</td>
<td>Judith</td>
<td>604-482-3712</td>
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<tr>
<td>Carnegie Community Center</td>
<td>401 Main Street Vancouver, BC V6A 2T7</td>
<td>Katrina</td>
<td>604-665-3349</td>
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<tr>
<td>Christ Church Cathedral</td>
<td>690 Burrard St. Vancouver, BC V6C 2L1</td>
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<td>604-682-3848</td>
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<td>First Baptist Church</td>
<td>969 Burrard St. Vancouver, BC</td>
<td>Soloman</td>
<td>604-683-8441</td>
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<tr>
<td>The Gathering Place</td>
<td>609 Helmken St. Vancouver, BC V6B 5R1</td>
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<td>604-665-2391</td>
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<tr>
<td>South Vancouver Neighborhood House</td>
<td>6470 Victoria Dr. Vancouver, BC V5P 3X7</td>
<td>Lynn</td>
<td>604-324-6212</td>
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<tr>
<td>Renfrew-Collingwood Senior Center</td>
<td>3015 East 23rd Ave. Vancouver, BC V5L 1S6</td>
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<td>604-430-1441</td>
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<tr>
<td>South Granville Senior’s Center</td>
<td>1420 West 12th Ave. Vancouver, BC V5N 1V6</td>
<td>Joy</td>
<td>604-732-0812</td>
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<tr>
<td>Covenant House Vancouver</td>
<td>575 Drake Street Vancouver, BC V6B 4K8</td>
<td>Susan</td>
<td>604-897-8598</td>
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<tr>
<td>Anderson Lodge</td>
<td>1470 East Broadway Vancouver, BC V5N 1V6</td>
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<td>604-874-1246</td>
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<tr>
<td>Vi Fineday</td>
<td></td>
<td>Irena</td>
<td>604-736-2423</td>
</tr>
<tr>
<td>Salvation Army (Cariboo Hill Burnaby Branch)</td>
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<td>Jamie</td>
<td>604-525-7311</td>
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**Institutions**
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<td>Provincial Ministry of Corrections</td>
<td>Don 250-729-7705</td>
<td>April 10th, 2006</td>
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<tr>
<td>Vancouver Police</td>
<td>Heidi 604-717-3131</td>
<td>April 10th, 2006</td>
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<tr>
<td>UBC Food Services</td>
<td>Piouch 604-822-3663</td>
<td>April 11th, 2006</td>
</tr>
<tr>
<td>Crofton House School</td>
<td>Rick 604-263-3255</td>
<td>April 11th, 2006</td>
</tr>
<tr>
<td>Public Works</td>
<td>Jason 604-775-6642</td>
<td>April 11th, 2006</td>
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<tr>
<td>Vancouver School Board</td>
<td>Adele 604-713-5014</td>
<td>April 11th, 2006</td>
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### Processors

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<td>Four Seasons Food Ltd.</td>
<td>127 East Kent Ave, Vancouver, BC</td>
<td>Sheri 604-321-5514</td>
<td>April 4th, 2006</td>
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<td>V5X 2X5</td>
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<td>Frankly Fresh Salads</td>
<td>1735 Powell St., Vancouver, BC</td>
<td>Frank 604-255-0054</td>
<td>April 4th, 2006</td>
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<td>V5L 1H6</td>
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<tr>
<td>Northwest Produce</td>
<td>355 Powell St., Vancouver, BC</td>
<td>Dennis 604-683-8822</td>
<td>April 4th, 2006</td>
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<td>V6A 1G5</td>
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<td>Discovery Organics</td>
<td>Vancouver, BC</td>
<td>Anne 604-299-1683</td>
<td>April 11th</td>
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<tr>
<td>Natural Indulgence</td>
<td>1139 W Broadway, Vancouver, BC</td>
<td>Carla 604-535-0646</td>
<td>April 5th</td>
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<tr>
<td>Sabra Kisher Restaurant and Bakery</td>
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<td>604-733-4912</td>
<td>April 5th, 2006</td>
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<tr>
<td>P&amp;S Frozen Foods</td>
<td>1238 Marine Dr. SE, Vancouver, BC</td>
<td>Susan 604-324-8820</td>
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<td>Stock Market</td>
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<td>Booster Juice</td>
<td>2430 Commercial Dr., Vancouver, BC</td>
<td>Devinder 604-871-1516</td>
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Municipal Food Charters

Canadian governments are responding to the growing need for food systems planning and integrated food policy development. One example is municipal food charters. Food Charters express key values and priorities for developing just and sustainable food systems. Typically, they combine vision statements, principles, and broad action goals pointing towards a coordinated municipal food strategy.

Food charters are most commonly created by food policy councils or other agencies that represent different sectors of the food system. The process of creating a food charter engages individuals and organizations from all aspects of the food system in finding creative solutions to local food challenges. Steps taken to create a just and sustainable food system can create broad cultural, social, economic, environmental, health, and educational benefits for all of society.

Municipal governments in Canada that currently have food charters include: Toronto, Sudbury, Saskatoon, Prince Albert, Kamloops, and Merritt. The Saskatoon Health Region recently adopted a Food Charter. Ottawa, Montreal, Vancouver, the Capital Regional District (Greater Victoria, BC,) the Province of Manitoba, and the Province of Saskatchewan are currently developing and exploring the adoption of food charters. As well, a proposal was recently presented to the House of Commons to adopt a Canadian Food Charter.

Food policy in Canadian cities

Food policy is a growing area of municipal planning and policymaking that addresses food production, distribution, access, consumption and waste management, and guides how these systems influence our lives and our neighbourhoods. This trend reflects a growing recognition that we are all affected by food decisions, particularly in cities, where the majority of Canadians live. It also represents local governments’ acknowledgement of their role in the development of just and sustainable food systems for their citizens.

Municipal food policies typically focus on land use planning, urban agriculture, emergency food distribution, food retail access, community health, waste management, and community economic development. Integrating food decisions into these areas of municipal jurisdiction strengthens a whole system approach in the delivery of services. This can help improve the health of the community, and increase economic and environmental efficiencies. By applying food system best practices to municipal operations, governments can improve energy efficiency, decrease pollution, conserve water, and reduce and redirect garbage. Addressing food-related issues and working together on sustainable urban development initiatives enhances the stability of civil society and creates economic growth and increased employment opportunities.

Food policy in the City of Vancouver

On July 8, 2003, Vancouver City Council approved a motion supporting the development of a just and sustainable food system for the City of Vancouver. A just and sustainable food
The system is defined as one in which food production, processing, distribution, consumption and recycling of organic waste are integrated to augment environmental, economic, social and nutritional health. To provide leadership in achieving this goal, a Food Policy Task Force was initiated on July 8, 2003. In December 2003, Vancouver City Council approved a Food Action Plan developed by the Food Policy Task Force, and on March 11, 2004, City Council approved the expenditures associated with the Action Plan. Finally, on July 14, 2004, the Food Policy Task Force, as its final act, elected members of Vancouver's first municipally-affiliated Food Policy Council.

The primary goal of the Vancouver Food Policy Council (VFPC) is to examine the operation of our local food system, stimulate and lead a dialogue on food, promote projects in the community, and provide policy ideas and recommendations that enhance a sustainable food system. The VFPC met for the first time in September 2004 and developed a detailed work plan that integrates and builds upon the projects and goals identified in the Food Action Plan. The Vancouver Food Charter, an initiative of the VFPC, is a policy step in that direction.

The Vancouver Food Charter identifies five principles of a just and sustainable food supply:

1. Community Economic Development
2. Ecological Health
3. Social Justice
4. Collaboration and Participation
5. Celebration

1. Community Economic Development

Unprecedented changes in the global food system have led to analyses of the risks of the contemporary food supply and the benefits of strengthening the local food system for community economic development:

- The contemporary food system relies extensively on fossil fuels at every stage of production, processing, distribution/transportation, consumption and waste management. Spiraling food costs and interruptions in food supplies are potential and potent risks.
- Income limitations significantly reduce access to nutritionally adequate and quality food on a regular basis.
- Investing in ways to meet more of our basic food needs from sources closer to home builds a more sustainable and secure food system and strengthens overall economic diversity. The local multiplier from investing in the local food system has a larger and more sustained effect on all sectors of the local and regional economy. Cusgarne Organics in England found that for every unit invested in the local food economy there was a local economic multiplier of 2.59X, versus a return of only 1.4X to the local economy from a unit spent at the supermarket.

2. Ecological Health

We have enjoyed a cheap and reliable food supply that has grown over many decades. This food system, however, is based on an industrial model that is unsustainable.
Environmental degradation has reduced the ability of the ecosystem to support sustainable food production and ecological biodiversity. Use of fertilizers, pesticides, and herbicides damage the soil and leave environmental residues that threaten species diversity and human health. Antibiotics increase the potential for the development and transmission of resistant pathogens.

Rapid urbanization is resulting in loss of productive agricultural land and the breakdown of links between urban and rural areas.

Long distance transport of food consumes fuel and releases pollution into the air. Freight transport is a key source of greenhouse gas emissions, which are a cause of global warming.

Locally-based food and agriculture policies that support sustainable agriculture and food production enhance efforts to protect land, air and water, conserve open lands, and preserve natural resources.

3. Social Justice

Hunger, food insecurity, and chronic health problems related to both access and lifestyle influences carry an increasing social cost of poverty and an expanding financial burden on our medical system.

- The Canadian Community Health Survey (CCHS) found an estimated 3.7 million or 15% of Canadians are “food-insecure.” (Health Report, May 2005). Provincial trends show annual food bank use increased 16% and children needing emergency food increased 41.7% between 2003 and 2004. The Greater Vancouver Food Bank Society provides food to 25,000 people in need each week. 40% are families and 39% are children. Homelessness doubled in Vancouver and in the region between 2002 and 2005 (City of Vancouver Homeless Action Plan).

- Chronic diseases, such as malnutrition, obesity, diabetes, and heart disease, are related to food availability, food access, and food choices. These diseases absorb an increasing amount of our health dollars.

- Childhood obesity has tripled in Canada over the last 25 years, with one in four Canadian children now considered overweight or obese. Diabetes, associated with obesity, is also rising dramatically among children. A disproportionate number of these children come from lower income families (Statistics Canada), where food dollars may be stretched further on cheap foods that derive a majority of their calories from added fats and sugar but do not provide adequate nutrition. Children do not learn when they aren’t getting nutritionally adequate, quality food on a regular basis. Each year, the Vancouver School Board provides daily hot lunch programs to over 9,000 children, or about 15% of the city’s student population. Outside of participation in school meal programs, it is a challenge for many vulnerable children and youth to access nutritious food.

- Addressing unequal access to nutritious food through land use planning, retail food access, urban agriculture, emergency food distribution, and community economic development strengthens municipal food security.

- Positive nutrition messages, along with providing nutritious foods and beverages in cafeterias and vending machines, can support wellness, health and nutrition in the workplace, schools, and other societal venues. (Goldberg, 2006)
4. **Collaboration and Partnership**

Many levels of government in Canada and beyond are addressing the need for sustainable food systems, and their initiatives provide a policy context for ensuring a sustainable food system for the City of Vancouver. There are opportunities for collaboration and partnership with other levels of government, with business and with groups from civic society to support sustainable agriculture, protect local farmland, create regional food economies, and develop food security programs and health and nutrition promotion strategies that help enhance the health of all Vancouverites.

- **Greater Vancouver Regional District (GVRD):** The GVRD’s regional growth strategy, Livable Region Strategic Plan, (1996) is a framework for regional land use and transportation decisions aimed at maintaining regional livability and protecting the environment in the face of anticipated growth. Economic Strategy for Agriculture in the Lower Mainland (2002) encourages the actions, plans and policies necessary to maintain and enhance the viability of agriculture in the Lower Mainland. The GVRD Agriculture Advisory Board (1992) advises the GVRD Board on agricultural issues in the region.

- **Province of British Columbia:** In 1974 the Province established the Agricultural Land Reserve (ALR) and mandated the Provincial Agricultural Land Commission (ALC) to protect our scarce supply of agricultural land. However, there is increasing pressure to exclude parcels of land from the ALR for development purposes. While this is predominantly an issue within regional and provincial jurisdiction, the City of Vancouver recognizes the urgent need to conserve farm land resources as a key piece of a sustainable food system. City Council voted unanimously in 2004 to urge the ALC to reject a proposal to remove nearby farm land from the Agricultural Land Reserve.


- **United Nations (UN):** The need for just and sustainable food systems is a global need. A range of international initiatives exist that address food justice, food security, and food sustainability in the future. Most notable are the United Nations Covenant on Social, Economic and Cultural Rights (UNCSECR), which affirms “the right to food and the fundamental right of everyone to be free from hunger”, the UN Convention on the Rights of the Child (which affirms in Article 24 children’s rights to the provision of adequate nutritious foods), and in Article 27 (support for parents in providing nutritious food for their children), and the UN Voluntary Guidelines on the progressive realization of the right to food (UNFAO, 2004).

- **Civil society:** BC’s community food security movement, including business leaders, is active in all aspects of the food system to address food related issues and improve community food security. Food security organizations include business, neighbourhood, municipal, regional and provincial groups whose actions contribute to food system and food policy development.

5. **Celebration**

We celebrate Vancouver for its distinctive food-ways, for its unrivalled international cuisine, and for embracing livability and sustainability as key development principles.
• We celebrate the multi-layered social role of food and culture and the diverse foodways of different ethnic/cultural communities. Food is perhaps the most significant expression of cultural distinctiveness and the most frequent way that different communities enjoy one another’s cultures.
• We also celebrate Vancouver’s status as a world class city in its variety and excellence of restaurants. It is truly a culinary destination and many of our finest restaurants feature local produce on their menus.
• We celebrate the interdependent bond between rural and urban people and our bond with all living creatures in our absolute dependence on nature for the food, air and water we depend on for life.
• Vancouver is frequently cited as one of the most livable cities in the world. In April 2002, City Council endorsed sustainability as a fundamental approach for all the City’s operations and a guiding principle for future development.
• The City of Vancouver already provides and/or supports a wide range of food-related programs and services including: urban agriculture for new neighbourhood developments, the development of farmers markets, community gardens, urban beekeeping, and food trees, and the promotion of composting and recycling of kitchen and yard waste.
VANCOUVER FOOD CHARTER

January 2007

The Vancouver Food Charter presents a vision for a food system which benefits our community and the environment. It sets out the City of Vancouver’s commitment to the development of a coordinated municipal food policy, and animates our community’s engagement and participation in conversations and actions related to food security in Vancouver.

VISION

The City of Vancouver is committed to a just and sustainable food system that

- contributes to the economic, ecological, and social well-being of our city and region;
- encourages personal, business and government food practices that foster local production and protect our natural and human resources;
- recognizes access to safe, sufficient, culturally appropriate and nutritious food as a basic human right for all Vancouver residents;
- reflects the dialogue between the community, government, and all sectors of the food system;
- celebrates Vancouver’s multicultural food traditions.

PREAMBLE

In a food-secure community, the growing, processing and distribution of healthy, safe food is economically viable, socially just, environmentally sustainable and regionally based.

Some members of our community, particularly children, do not have reliable access to safe and nutritious food. In addition, much of the food we eat travels long distances from where it is grown and processed and is dependent on fossil fuels at every stage. Dependency on imports for our food increases our impact on the environment and our vulnerability to food shortages from natural disasters or economic set-backs. Overall food security is increasingly influenced by global factors that affect our community’s ability to meet our food system goals.

Community food security needs the involvement of all members of our community, including citizens, consumers, businesses and governments. When citizens are engaged in dialogue and action around food security, and governments are responsive to their communities’ concerns and recommendations, sound food policy can be developed and implemented in all sectors of the food system and the community.

In 2002, the City of Vancouver adopted sustainability as a fundamental approach for all the City’s operations. The goal of a just and sustainable food system plays a significant role in achieving a “Sustainable Vancouver”.
PRINCIPLES

Five principles guide our food system:

Community Economic Development

Locally-based food systems enhance Vancouver’s economy. Greater reliance on local food systems strengthens our local and regional economies, creates employment, and increases food security.

Ecological Health

A whole-system approach to food protects our natural resources, reduces and redirects food waste, and contributes to the environmental stability and well-being of our local, regional, and global communities.

Social Justice

Food is a basic human right. All residents need accessible, affordable, healthy, and culturally appropriate food. Children in particular require adequate amounts of nutritious food for normal growth and learning.

Collaboration and Participation

Sustainable food systems encourage civic engagement, promote responsibility, and strengthen communities. Community food security improves when local government collaborates with community groups, businesses, and other levels of government on sound food system planning, policies and practices.

Celebration

Sharing food is a fundamental human experience. Food brings people together in celebrations of community and diversity.

To create a just and sustainable food system, we in Vancouver can:

- Be leaders in municipal and regional food-related policies and programs
- Support regional farmers and food producers
- Expand urban agriculture and food recovery opportunities
- Promote composting and the preservation of healthy soil
- Encourage humane treatment of animals raised for food
- Support sustainable agriculture and preserve farm land resources
- Improve access to healthy and affordable foods
- Increase the health of all members of our city
- Talk together and teach each other about food
- Celebrate our city’s diverse food cultures