AGENDA

WASTE MANAGEMENT COMMITTEE
REGULAR MEETING

Wednesday, July 21, 2010
9:00 a.m.
2nd Floor Boardroom
4330 Kingsway, Burnaby, BC

Committee Members:
Chair, Director Greg Moore, Port Coquitlam
Vice Chair, Director Heather Deal, Vancouver
Councillor Mary-Wade Anderson, White Rock
Director Derek Corrigan, Burnaby
Director Ernie Daykin, Maple Ridge
Director Pamela Goldsmith-Jones, West Vancouver
Councillor Scott Hamilton, Delta
Director Linda Hepner, Surrey
Director Don MacLean, Pitt Meadows
Director Darrell Mussatto, North Vancouver City
Director Harold Steves, Richmond
Director Joe Trasolini, Port Moody
Director Wayne Wright, New Westminster

Please advise Michele Kingdon at (604) 451-6199 if you are unable to attend.
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NOTICE TO THE GVRD
WASTE MANGEMENT COMMITTEE

9:00 AM
Wednesday, July 21, 2010
2nd Floor Boardroom, 4330 Kingsway, Burnaby, British Columbia.

AGENDA

1. ADOPTION OF THE AGENDA
   1.1 July 21, 2010 Regular Meeting Agenda
       Staff Recommendation:
       That the Waste Management Committee adopt the agenda for its regular
       meeting scheduled for July 21, 2010 as circulated.

2. ADOPTION OF THE MINUTES
   2.1 June 9, 2010 Regular Meeting Minutes
       Staff Recommendation:
       That the Waste Management Committee adopt the minutes of its regular
       meeting held June 9, 2010 as circulated.

3. DELEGATIONS
   No items presented.

4. INVITED PRESENTATIONS
   4.1 Solid Waste Management Plan Reference Panel
       Designated Speaker: Brock Macdonald, Reference Panel Spokesperson,
       and Executive Director, Recycling Council of BC. Presentation of the Panel’s
       recommendations regarding the Draft Integrated Solid Waste and Resource
       Management Plan.

5. REPORTS FROM COMMITTEE OR STAFF
   5.1 Integrated Resource Recovery Investigation - Lulu Island Sewerage Area
       Designated Speaker: Fred Nenninger, Division Manager, Regional Utility
       Planning
       Recommendation:
       That the Board authorize the addition of $150,000 to the 2010 Liquid Waste
       capital plan to initiate the Integrated Resource Recovery (IRR) work for the
       Lulu Island Sewerage Area.
5.2 Greater Vancouver Sewerage and Drainage District - Amendment of Plan F – Fraser Sewerage Area to Modify the Langley Servicing Plan - Bylaw No. 257, 2010
Designated Speaker: Fred Nenninger, Division Manager, Regional Utility Planning
That the Board:
   a) introduce and give first, second and third reading to “Greater Vancouver Sewerage and Drainage District Amendment of Plan F – Fraser Sewerage Area to Modify the Langley Servicing Plan Bylaw No. 257, 2010”;
   b) reconsider, pass and finally adopt “Greater Vancouver Sewerage and Drainage District Amendment of Plan F – Fraser Sewerage Area to Modify the Langley Servicing Plan Bylaw No. 257, 2010”.
   c) authorize up to $400,000 for detailed design for the replacement of the Carvolth Sanitary Trunk Sewer and a section of the Langley Sewerage Connector No. 1 to be funded through cash-flow reallocation in the 2010 GVS&DD budget.

5.3 2010 Zero Waste Conference
Designated Speakers: Heather Schoemaker, Manager, Corporate Relations
   Dan Hajdukovic, Division Manager, Policy and Planning

5.4 Zero Waste Challenge Action Plan
Designated Speaker: Dan Hajdukovic, Division Manager, Policy and Planning

5.5 Draft Integrated Solid Waste and Resource Management Plan: Consultation Program Results
Designated Speaker: Marie Griggs, Public Involvement Division Manager, Engineering and Construction
Report to follow

5.6 Integrated Solid Waste and Resource Management Plan
Designated Speaker: Johnny Carline, Commissioner/Chief Administrative Officer
Report to follow

5.7 Manager's Report
Designated Speaker: Toivo Allas, Manager, Policy and Planning Department
Recommendation: That the Waste Management Committee receive for information the report dated July 12, 2010, titled “Manager’s Report”.

July 16, 2010
6. INFORMATION ITEMS


6.2 Magazine Article: Getting to 50 per cent waste diversion and beyond - FCM FORUM Spring 2010

7. OTHER BUSINESS
No items presented.

8. RESOLUTION TO CLOSE MEETING
That the regular meeting of the Metro Vancouver Waste Management Committee scheduled for July 21, 2010 be closed pursuant to the Community Charter provisions. Sections 90(1) (a).

As provided in section 90 of the Charter:
(1) A part of a meeting may be closed to the public if the subject matter being considered relates to or is one or more of the following:
   (a) personal information about an identifiable individual who holds or is being considered for a position as an officer, employee or agent of the regional district or another position appointed by the regional district;

9. ADJOURNMENT
Staff Recommendation:
That the Waste Management Committee conclude its regular meeting of July 21, 2010.
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GREATER VANCOUVER REGIONAL DISTRICT
WASTE MANAGEMENT COMMITTEE

Minutes of the Regular Meeting of the Greater Vancouver Regional District (GVRD) Waste Management Committee held at 1:01 p.m. on Wednesday, June 9, 2010 in the 2nd Floor Boardroom, 4330 Kingsway, Burnaby, British Columbia.

PRESENT:
Chair, Director Greg Moore, Port Coquitlam
Vice Chair, Director Heather Deal, Vancouver
Councillor Mary-Wade Anderson, White Rock
Director Derek Corrigan, Burnaby (arrived at 1:16 p.m.)
Director Ernie Daykin, Maple Ridge
Director Pamela Goldsmith-Jones, West Vancouver (departed at 2:37 p.m.)
Councillor Scott Hamilton, Delta (departed at 2:38 p.m.)
Director Linda Hepner, Surrey
Director Don MacLean, Pitt Meadows
Director Harold Steves, Richmond
Director Wayne Wright, New Westminster (arrived at 1:03 p.m.)

ABSENT:
Director Darrell Mussatto, North Vancouver City
Director Joe Trasolini, Port Moody

STAFF:
Johnny Carline, Commissioner/Chief Administrative Officer
Toivo Allas, Manager, Policy and Planning Department
Doug Humphris, Manager, Operations and Maintenance Department
Tim Jervis, Manager, Engineering and Construction Department
Klara Kutakova, Assistant to Regional Committees, Corporate Secretary’s Department

1. ADOPTION OF THE AGENDA

1.1 June 9, 2010 Regular Meeting Agenda

It was MOVED and SECONDED
That the Waste Management Committee:
   a) amend the agenda for its regular meeting scheduled for June 9, 2010
      by adding item 6.5 Correspondence dated May 25, 2010 from
      Vicki Huntington, MLA, Delta South, to Lois E. Jackson, Chair,
      Metro Vancouver, concerning the proposed Wastewater System
      Effluent Regulations; and
   b) adopt the agenda as amended.

   CARRIED
2. ADOPTION OF THE MINUTES

2.1 May 5, 2010 Regular Meeting Minutes

It was MOVED and SECONDED
That the Waste Management Committee adopt the minutes of its regular meeting held May 5, 2010 as circulated.

CARRIED

3. DELEGATIONS
No items presented.

4. INVITED PRESENTATIONS

1:03 p.m.
Director Wright arrived at the meeting.

4.1 Neil Hastie, Encorp Pacific (Canada)
Neil Hastie, President, Encorp Pacific (Canada), provided an overview of the Industry Product Stewardship (Extended Producer Responsibility) program. The Committee was informed about the following:

- The goal of the program is to maximize recycling and waste diversion at reasonable cost
- Product categories are designated by the Province using the Recycling Regulation
- All aspects of the recycling program for each product category are managed by a stewardship agency, a non-profit, BC based organization, appointed by affected producers
- Currently, the Extended Producer Responsibility program comprises the following categories: beverage containers; pharmaceuticals; paints, pesticides, gasoline, solvents and flammables; tires; lead acid batteries; used oil containers, filters and antifreeze; electronics (computers, printers, TV, audio/video devices); mercury bearing equipment; and wireless devices and alkaline batteries. A new product category, electrical equipment, will be phased in over the next two years (on April 1, 2011 and 2012)

The Committee was also provided an outline of the existing stewardship agencies and collection sites. The presenter concluded by acknowledging the value of and expressing support for eco-centres, proposed in the Draft Integrated Solid Waste and Resource Management Plan, provided these would not diminish the existing privately developed infrastructure.

Presentation material titled “Industry Product Stewardship” and on-table map titled “Encorp Pacific Authorized Bottle Depots – Metro Vancouver” and on-table map titled “Encorp Pacific Authorized Non-Depot EOLE Sites – Metro Vancouver” are retained with the June 9, 2010 Waste Management Committee agenda.
1:16 p.m.
Director Corrigan arrived at the meeting.

4.2 Gordon D. Skene, Paradigm Environmental Technologies, Inc.
Gordon D. Skene, President, Paradigm Environmental Technologies, Inc. presented the new proposal for Lulu Island Wastewater Treatment Plant MicroSludge and Green Biomethane project. The Committee was informed about the following:

- MicroSludge benefits
- Existing sludge processing and disposal at Lulu Island WWTP
- Paradigm’s original and new proposal
- Process of sludge conversion to biomethane
- Waste activated sludge cell destruction
- Project capital costs estimate
- Senior government grants for the project
- Contribution to the project offered by Paradigm
- Metro Vancouver’s maximum contribution
- Return on investment and net present value
- Alternative uses for biomethane
- Project benefits
- MicroSludge demonstration sites

The presenter requested Metro Vancouver to:
- Start the pre-design work before 2011
- Approve the project as part of the 2011 capital plan
- Complete the pre-design work in the first quarter of 2011 in order to preserve a portion of the federal grant amount
- Proceed with the project within one year

Presentation titled “Lulu Island Project Overview MicroSludge + Green Biomethane” is retained with the June 9, 2010 Waste Management Committee agenda.

5. REPORTS FROM COMMITTEE OR STAFF

5.1 Draft Integrated Solid Waste and Resource Management Plan: Consultation Process Concluding Meeting
Report dated June 4, 2010 from Marie Griggs, Public Involvement Division Manager, Engineering and Construction Department, providing an update on the consultation program activities for the Draft Integrated Solid Waste and Resource Management Plan completed as of June 4, 2010 and seeking direction on the last meeting to receive public delegations.

Staff was requested to defer the July 14\textsuperscript{th} regular committee meeting to July 21, 2010 and schedule an additional Committee meeting for July 28, 2010, if required.
It was MOVED and SECONDED  
That the Board approve:  

- An additional and final public meeting on the Draft Integrated Solid Waste Management Plan, following the format of previous public meetings chaired by Chair of the Board and Chair of the Waste Management Committee, and held on July 14, 2010 which is the close of the public comment period;  
- Advertising of this meeting making clear that this is the last opportunity to make comments on the Draft Plan and that comments or delegation requests after this date will not be considered; and  
- The July 14, 2010 meeting of the Waste Management Committee being re-scheduled for July 21, 2010 to receive the consultation report and the final draft Plan from staff and the report of the Solid Waste Management Plan Reference Panel and an additional Waste Management Committee meeting being scheduled for July 28, 2010, if required.

CARRIED

5.2 Amendment – Fraser Sewerage Area Boundary – District of Maple Ridge  
Replacement report dated May 25, 2010 from Mike Stringer, Senior Engineer, Policy and Planning Department, responding to a request from the District of Maple Ridge for Board approval to amend the Fraser Sewerage Area boundary.

It was MOVED and SECONDED  
That the Board approve the expansion of the Fraser Sewerage Area to include the following areas identified on Plan SA-2376, Sheets 53 – 59:  
1. the Albion Urban Area  
2. the Silver Valley Urban Area Plan  
3. Regional Growth Strategy Amendments  
4. Correctional Facilities and Future Industrial Area  
5. the footprints of existing buildings in the West and North Areas previously connected to sewer  
6. the footprints of existing buildings in the East Areas previously connected to sewer  
7. the footprints of existing buildings in the South Areas previously connected to sewer  
8. Upper Jackson Farm

CARRIED

5.3 Biogas Upgrade and Microsludge Biogas Production Enhancement Proposal  
Report dated May 18, 2010 from Johnny Carline, Commissioner /Chief Administrative Officer, recommending action on a new proposal from Paradigm Environmental Technologies, Inc. to upgrade biogas at Lulu Island Wastewater Treatment Plant for sale to external party and to install MicroSludge technology.

Members spoke in favour of alternative a) presented in the report.
It was MOVED and SECONDED
That the Board approve $300,000 funding in the 2011 budget for pre-design of the biogas upgrade and MicroSludge biogas production enhancement project.

CARRIED
Directors Corrigan, Goldsmith-Jones, Councillor Hamilton, and Directors Hepner and Wright voted in the negative.

5.4 Status of Utilities Capital Expenditures to April 30, 2010
Report dated June 1, 2010 from Tim Jervis, Manager, Engineering and Construction Department, and Phil Trotzuk, Financial Planning and Operations Manager, Finance and Administration Department, informing on the status of utilities capital expenditures.

It was MOVED and SECONDED
That the Waste Management Committee receive the report titled Status of Utilities Capital Expenditures to April 30, 2010, dated June 1, 2010 for information.

CARRIED

5.5 Manager’s Report
Report dated May 18, 2010 from Toivo Allas, Manager, Policy and Planning Department, and Tim Jervis, Manager, Engineering and Construction Department, providing an update on the 2010 Waste Management Committee priorities, and informing about the regulation of private solid waste facilities in Metro Vancouver and on the waste disposal contingency agreement between the GVS&DD and Cowichan Valley Regional District.

2:37 p.m.
Director Goldsmith-Jones departed the meeting.

Request of Staff
Staff was requested to provide the Committee with an outline of private operators of facilities handling municipal solid waste and recyclable materials within Metro Vancouver and a brief description of the agreements.

2:38 p.m.
Councillor Hamilton departed the meeting

It was MOVED and SECONDED
That the Waste Management Committee receive for information the report dated May 18, 2010, titled “Manager’s Report”.

CARRIED

The Committee discussed the need to track the implementation of the actions in the new Draft Integrated Solid Waste and Resource Management Plan and expressed concerns about the lack of a uniform accounting process for solid waste, green waste and recyclables collected by municipalities. Staff was directed to work with the Regional Engineers Advisory Committee to develop a standardized solid waste and recycling data collection system to be used by all municipalities for reporting to Metro Vancouver, and to recommend the reporting interval.
It was MOVED and SECONDED
That the Waste Management Committee direct staff to work with the Regional Engineers Advisory Committee on determining what standardized waste management data should be collected by municipalities for reporting to Metro Vancouver and what the reporting interval should be.

CARRIED

It was proposed that a Zero Waste Conference be held by Metro Vancouver each fall, commencing in 2010. Staff was requested to report back at the July committee meeting on a proposed agenda, timing and budget for the fall 2010 conference.

It was MOVED and SECONDED
That the Waste Management Committee direct staff to report at the July 2010 Waste Management Committee meeting on logistics and budget for a Zero Waste Conference proposed to be held by Metro Vancouver in fall 2010.

CARRIED

6. INFORMATION ITEMS

It was MOVED and SECONDED
That the Waste Management Committee receive for information the following correspondence:

6.1 Correspondence from Jim Stanton, Director, Ministry of Environment, to Chair Lois Jackson, Chair, Greater Vancouver Sewerage and Drainage District, dated April 14, 2010 regarding “Implementation of CCME Canada-wide Municipal Wastewater Strategy in British Columbia.”

6.2 Correspondence from Thomas Lyons, Vice President-Project Development, Covanta Energy to Johnny Carline, CAO dated May 10, 2010 regarding “Gold River Power fact sheet”.

6.3 Correspondence from Thomas Lyons, Vice President-Project Development, Covanta Energy to Johnny Carline, CAO dated April 14, 2010 regarding “New York Times Outlines Benefits of Energy from Waste.”


6.5 Correspondence dated May 25, 2010 from Vicki Huntington, MLA, Delta South, to Lois E. Jackson, Chair, Metro Vancouver, concerning the proposed Wastewater System Effluent Regulations.

CARRIED

7. OTHER BUSINESS

No items presented.
8. RESOLUTION TO CLOSE MEETING

It was MOVED and SECONDED
That the regular meeting of the GVRD Waste Management Committee scheduled for June 9, 2010 be closed pursuant to Community Charter provisions, Section 90 (1) (e) as follows:

90(1) A part of a meeting may be closed to the public if the subject matter being considered relates to or is one or more of the following:
(e) the acquisition, disposition or expropriation of land or improvements, if the Committee considers that disclosure could reasonably be expected to harm the interests of the regional district.

CARRIED

9. ADJOURNMENT

It was MOVED and SECONDED
That the Waste Management Committee conclude its regular meeting of June 9, 2010.

CARRIED
(Time: 2:48 p.m.)

___________________________ _____________________________
Klara Kutakova,     Greg Moore, Chair
Assistant to Regional Committees
THIS PAGE LEFT BLANK INTENTIONALLY
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To: Waste Management Committee  
From: Fred Nenninger, Division Manager, Policy and Planning  
Date: June 21, 2010  
Subject: Integrated Resource Recovery Investigation – Lulu Island Sewerage Area  

Recommendation:

That the Board authorize the addition of $150,000 to the 2010 Liquid Waste capital plan to initiate the Integrated Resource Recovery (IRR) work for the Lulu Island Sewerage Area.

1. PURPOSE

To request that the Board authorize the addition of $150,000 to the 2010 Liquid Waste capital plan to initiate the Integrated Resource Recovery (IRR) work for the Lulu Island Sewerage Area.

2. CONTEXT

The Metro Vancouver Capital Plan includes an allocation of up to $1,000,000 to carry out an IRR investigation for the Lulu Island Sewerage Area beginning in 2012. The City of Richmond has requested that this work be advanced to start in 2010, to better align with the City’s Sustainability Objectives and Community Energy Planning initiatives.

Integrated Resource Recovery is an integrated planning approach, included in Metro Vancouver’s utility management plans, to optimize the beneficial recovery of resources from liquid and solid waste streams. Resources include thermal energy, reclaimed water, and nutrients. Recovering resources from waste reduces demands on existing infrastructure and the environment, provides alternative energy to reduce fossil fuel use and GHG emissions, and can provide soil replenishing nutrients.

It is proposed to initiate the investigation in 2010, and continue with follow-up phases of the work in 2011 and 2012, in accordance with Capital Plan.

3. ALTERNATIVES

1. That the Board authorize the addition of $150,000 to the 2010 Liquid Waste capital plan to initiate the Integrated Resource Recovery (IRR) work for the Lulu Island Sewerage Area.

2. The committee can reject the request to advance the work

Staff recommends Alternative 1.
4. CONCLUSION

Advancing the start of the Integrated Resource Recovery work for Lulu Island Sewerage Area from 2012 to 2010 will assist the City of Richmond in achieving its Sustainability Objectives and provide valuable input to its Community Energy Plan.

Attachment:
Letter from City of Richmond dated Nov 10, 2009 (4206246)
November 10, 2009
File: 10-6000-01/2009-Vol 01

Metro Vancouver
4330 Kingsway
Burnaby, BC V5H 4G8

Attention: Mr. Fred Nenninger

Dear Fred:

Re: Integrated Resource Recovery

At the Council meeting of October 26, 2009, the staff report “Integrated Resource Recovery (IRR)” was endorsed unanimously (copy attached). We accordingly request that Metro Vancouver advance the IRR initiative in Richmond in 2010. As outlined in the report, advancing the IRR initiative will ensure integration with Richmond’s Official Community Plan, Community Energy Plan and District Energy initiatives.

Please contact the undersigned if you require further information or clarification.

Yours truly,

[Signature]

Robert Gonzalez, P.Eng.
General Manager, Engineering and Public Works
(604-276-4150)

RG:es
To: Waste Management Committee

From: Fred Nenninger, Division Manager, Regional Utility Planning

Date: June 16, 2010

Subject: Greater Vancouver Sewerage and Drainage District - Amendment of Plan F – Fraser Sewerage Area to Modify the Langley Servicing Plan - Bylaw No. 257, 2010

Recommendation:

That the Board:

a) introduce and give first, second and third reading to “Greater Vancouver Sewerage and Drainage District Amendment of Plan F – Fraser Sewerage Area to Modify the Langley Servicing Plan Bylaw No. 257, 2010”;

b) reconsider, pass and finally adopt “Greater Vancouver Sewerage and Drainage District Amendment of Plan F – Fraser Sewerage Area to Modify the Langley Servicing Plan Bylaw No. 257, 2010”.

c) authorize up to $400,000 for detailed design for the replacement of the Carvolth Sanitary Trunk Sewer and a section of the Langley Sewerage Connector No. 1 to be funded through cash-flow reallocation in the 2010 GVS&DD budget.

1. PURPOSE

a) To revise the sewer servicing plan for the Langley area with Bylaw No. 257, 2010 which authorizes Amendment No. 21 to Plan F – Fraser Sewerage Area. This amendment implements an improved and more cost effective Langley servicing scheme than identified in the original plan by diverting wastewater from a City sewer catchment currently connected to Metro Vancouver’s Langley Connection Sewer to Metro Vancouver’s Carvolth Sanitary Trunk Sewer; and

b) to obtain authorization to reallocate approved 2010 capital funds for design of the needed replacement of both Metro Vancouver’s Carvolth Sanitary Trunk Sewer and a section of the Langley Sewerage Connector No. 1.

c) to inform the Committee and Board of an opportunity for cost savings by combining the required replacement with upgrades that will be required for future growth in the Township of Langley.
2. CONTEXT

The existing sewer servicing plan for the City of Langley is defined by Plan F – Fraser Sewerage Area (Amendment No. 10) which was originally adopted, through bylaw, by the Board in 1970. Amendment No. 15 (1987) added facilities to the GVS&DD sewer system which were recommended in the “Langley District Sewerage Study” and Amendment No. 20 (2008) provided technically favourable and more cost effective sewer alignments to serve the City and Township of Langley.

In a letter to Metro Vancouver and supported by a council resolution (Attachment 1), the City of Langley (City) proposes diverting waste water from a small City sewer catchment currently connected to Metro Vancouver’s Langley Connection Sewer to Metro Vancouver’s Carvolth Sanitary Trunk Sewer (Attachment 2). Under this proposal, the City would benefit primarily by avoiding costly construction of a new sewer in an existing residential neighbourhood with high potential for local disruption. Metro Vancouver benefits by transferring ownership of a portion of the Langley Connection Sewer to the City of Langley, which would become a local sewer, and by early replacement of the Carvolth Sanitary Trunk Sewer and the southern portion of Langley Sewerage connector No. 1 which would alleviate significant maintenance concerns and allow co-ordination with City of Langley repaving projects (Attachment 2).

The City’s proposal is summarized as follows:

- **Proposed Diversion of the City Sewer to Metro Vancouver’s Carvolth Sanitary Trunk Sewer**
  The City sewer servicing the neighbourhood in the vicinity of 200th Street between 53rd Avenue and 56th Avenue crosses 200th Street and Metro’s Carvolth Sanitary Trunk Sewer near Michaud Crescent and connects to Metro’s Langley Connection Sewer. This City sewer is undersized and its replacement is complicated by close proximity to existing homes and its route through a number of private residential properties. The City has indicated a preference for rerouting the catchment from Metro Vancouver’s Langley Connection to Metro Vancouver’s Carvolth Sanitary Trunk Sewer via a proposed new connection at Michaud Crescent and 200th Street. (Attachment 3)

  By making this change the Langley Connection would become a local sewer. The City will assume ownership and responsibility for the Langley Connection along the north edge of Brydon Lagoon from approximately 196 Street to 198 Street, subject to diverting the sewer catchment to the Metro Vancouver Carvolth Sanitary Trunk Sewer (Attachment 2). This change in ownership represents a change in the servicing plan and is the subject of Bylaw 257 (Attachment 4) and Drawing SF-2342, Sheet 3 (Attachment 5).

- **Replacement of the Carvolth Sanitary Trunk Sewer & Langley Connector No. 1**
  Metro Vancouver’s Carvolth Sanitary Trunk Sewer and Langley Sewerage Connector Number 1 (gravity section) were recently video inspected and sections of both sewers were found to be in poor condition due to corrosion. The sewer partially collapsed under 200th Street in 2008 requiring an emergency repair. Preparations are underway for temporary repairs to other sections of the pipe. It would be prudent to accelerate the replacement of the remainder of the Carvolth Sanitary Trunk Sewer and the southern portion of the Langley Sewerage Connector No. 1 for immediate maintenance and future growth reasons.
The City has identified 200th Street for repaving in 2010/11, where the majority of the Carvolth Sanitary Trunk Sewer is located. Replacement of the Carvolth Sanitary Trunk Sewer and the southern portion of the Langley Sewerage Connector No. 1 prior to repaving is recommended.

The estimated cost for design to replace the Carvolth Sanitary Trunk Sewer and the gravity section of the Langley Sewerage Connector No. 1 is estimated to be $400,000. The design cost for this unplanned project can be accommodated by utilizing capital funds identified in the 2010 GVS&DD budget for the North Surrey Interceptor – Port Mann Section Replacement project in the Fraser Sewerage Area. This project needs to be implemented in conjunction with the South Fraser Perimeter Road project under the Gateway Program. Construction of the North Surrey Interceptor replacement is not expected to start until sometime in 2011. The construction funding for the replacement of Carvolth Sanitary Trunk and the Langley Sewerage Connector No. 1 will be included in the 2011 GVS&DD budget and Long Range Plan. This proposed work would meet the needs of both the City and Metro Vancouver as outlined above.

### Option to Upgrade the Carvolth Sanitary Trunk Sewer & Langley Connector No. 1 to Meet Future Growth Requirements

The Carvolth Sanitary Trunk Sewer is expected to require upsizing before 2026 and the gravity section of Langley Sewerage Connector No. 1 before 2051 in order to accommodate growth in the Township of Langley (Township). The construction cost of upsizing the new sewer to meet growth requirements is the responsibility of the Township as set out in the servicing agreement. Considerable savings could be realized if the upsizing was carried out in conjunction with the replacement work required in 2011 as the Township would only be required to pay the incremental cost of installing a larger pipe. Discussions are underway with the Township regarding the upsizing option.

### 3. ALTERNATIVES

The Board can:

1)  
   a) introduce and give first, second and third reading to “Greater Vancouver Sewerage and Drainage District Amendment of Plan F – Fraser Sewerage Area to Modify the Langley Servicing Plan Bylaw No. 257, 2010”;
   
   b) reconsider, pass and finally adopt “Greater Vancouver Sewerage and Drainage District Amendment of Plan F – Fraser Sewerage Area to Modify the Langley Servicing Plan Bylaw No. 257, 2010”.
   
   c) authorize up to $400,000 for detailed design for the replacement of the Carvolth Sanitary Trunk Sewer and a section of the Langley Sewerage Connector No. 1 to be funded through cash-flow reallocation in the 2010 GVS&DD budget.

The proposed amendments to Plan F – Fraser Sewerage Area are consistent with the objectives of the original servicing plan. The sewer alignment included in the proposed amendment provides operational and financial benefits to both Metro Vancouver and the City of Langley.
2) Direct staff to not accept the proposed change and advise the City of Langley to seek other options.

The City of Langley would proceed with their original plan to replace the neighbourhood sewer running through back yards. The Carvolth Sanitary Trunk and Langley Sewerage Connector No. 1 would be repaired as required.

There are no reasons to refuse the request.

Staff recommends Alternative 1.

4. CONCLUSION

The City of Langley has written to propose diverting a sewer catchment from Metro Vancouver’s Langley Connection Sewer to Metro’s Carvolth Sanitary Trunk Sewer. This diversion will avoid the cost and disruption associated with replacing an aging and undersized municipal sewer running through local backyards. Connecting the Langley sewer to the Carvolth Sanitary Trunk Sewer provides Metro Vancouver with the opportunity to replace sections of the Carvolth Sanitary and Langley Sewerage Connector No. 1 which are in need of immediate repair or replacement.

Attachments:
1) City of Langley Council resolution dated June 21, 2010
2) City of Langley Sewer Rerouting Proposal – Overview (4179876)
3) City of Langley Sewer Rerouting Proposal – Detail (4177958)
4) Greater Vancouver Sewerage and Drainage District Amendment of Plan F – Fraser Sewerage Area to Modify the Langley Servicing Plan Bylaw No. 257, 2010 (4178170)
5) Amendment to Plan-F-Fraser Sewerage Area - Rawn Report Amendment No. 21 (4178080)
At the Regular Council Meeting held in the City of Langley at 7:00 PM on Monday June 21, 2010

Moved by Councillor Hall
Seconded by Councillor James

THAT the City of Langley agrees to take over ownership of a portion of sanitary sewer pipe along the north edge of Brydon Lagoon from approximately 196 Street to 198 Street from the Greater Vancouver Sewer and Drainage District.

CARRIED
To: Mayor Fassbender and Councillors
Subject: City of Langley Sewerage Network
From: Gary Vlieg
Director of Engineering, Parks & Environment
Date: June 15, 2010

RECOMMENDATION:
That the City of Langley agrees to take over ownership of a portion of sanitary sewer pipe along the north edge of Brydon Lagoon from approximately 196 Street to 198 Street from the Greater Vancouver Sewer and Drainage District.

PURPOSE:
To seek Council approval for the City of Langley to take over ownership of a portion of sanitary sewer pipe along the north edge of Brydon Lagoon from approximately 196 Street to 198 Street from the Greater Vancouver Sewer and Drainage District.

POLICY:
The City of Langley has adopted the Downtown Master Plan and amended the Official Community Plan to support increased levels of development. Staff are developing plans and construction programs to support the development.

COMMENTS/ANALYSIS:
Staff have developed a sanitary sewer model for the City of Langley that includes the land use plans as set out in the Official Community Plan. The purpose of the model is to identify network deficiencies to allow for the development of medium and long range capital plans. One of the key projects that was identified was to upgrade an
existing 450mm sanitary sewer to 750 mm from 200 Street to 197 Street as shown in Exhibit A. The cost of this project is estimated at over $1.0 Million (2009 $).

At the time that Metro Vancouver was designing the North Nicomekl Trunk Sewer (NNTS) staff identified an opportunity to reroute City sanitary sewer flows into the Metro Vancouver system. This rerouting would eliminate the need for the City to upgrade the aforementioned 450 mm pipe. Metro Vancouver staff reviewed the City’s proposal and have determined that there is significant value added for both the City and Metro Vancouver.

Metro Vancouver’s Carvolth Sanitary Trunk Sewer runs under 200 Street from the Nicomekl River north to 56 Avenue. This pipe has recently been inspected and found to be in poor condition requiring replacement. The City of Langley has plans to renew City utilities under this section of 200 Street as well as repaving 200 Street in either 2010 or 2011. In the interest of minimizing taxpayer expenditures it would be prudent to have Metro Vancouver replace or repair the Carvolth Sanitary Trunk Sewer prior to repaving 200 Street. Considering the need for replacement, the request by the City to re-route flows and the City’s plans for repaving 200 Street, Metro Vancouver staff are asking their Board for authority to proceed with the design of a new sanitary sewer. This new Carvolth sanitary sewer pipe would be sized to meet the City of Langley’s future needs as well as the Township’s future needs. The NNTS has been designed to accommodate the future needs of both communities.

From the City’s perspective there are two major advantages to proceeding with this joint project: there will no longer be a need to upsize the existing pipe thereby saving the City about $1.0 Million; and, we eliminate the need to severely disrupt the Brydon neighbourhood during construction of the upsized pipe. As shown in Exhibit A, the pipe passes through the rear yards of several properties as well as down the middle of 198A Street – replacing this pipe with a larger one along the same alignment would be very disruptive to the community.

Should this re-routing proceed, the section of pipe along the north edge of Brydon Lagoon, currently under Metro Vancouver ownership was identified as no longer having a regional function and should therefore be turned over to the City of Langley. This section of pipe is illustrated in Exhibit B. At the City’s request, Metro Vancouver video inspected this section of pipe to ensure that the City would not be given a section of pipe that was in poor condition. The City would take over approximately 310 metres of 600 mm diameter pipe.
For the City to take over this section of pipe on the north side of Brydon Lagoon, the Greater Vancouver Sewerage and Drainage District must undertake a bylaw amendment. The GVS&DD Board requires a Council resolution indicating acceptance of the proposed change prior to amending the bylaw.

BUDGET IMPLICATIONS:

There is $100,000 set aside in the 2010 Capital Budget for this project.

The City will be taking over an asset that at some future point will have to be replaced. The asset has a remaining life in excess of 20 years. There will also be ongoing routine maintenance of this asset that can be absorbed into existing operating budgets.

Should Council elect not to proceed with staff’s recommendation, a future expenditure in excess of $1.0 Million (2009 $) will be required to provide sufficient sanitary sewer capacity to support the Official Community Plan. This future expenditure is not currently in the 10 Year Capital Plan.

ALTERNATIVES:

The City could elect not to take over a portion of the sanitary sewer which will result in future expenditures of over $1.0 Million to upsize an existing sanitary sewer to support the Official Community Plan. In addition, Metro Vancouver will defer the design and construction of a new Carvolth Sanitary Trunk Sewer to an as yet, undetermined future date. This could result in uncoordinated asset replacement.

SUMMARY:

City of Langley staff have worked closely with Metro Vancouver staff to develop a sanitary sewer system that meets the existing and future needs of the City. There is a window of opportunity in which both organizations can renew their infrastructure with minimal negative impact. This proposal saves the City of Langley significant funding ($1.0 Million) and eliminates the need to disrupt a community to upsize a sanitary sewer main. It is recommended that the City of Langley take over a portion of sanitary sewer currently under the jurisdiction of the GVS&DD with the understanding that Metro Vancouver will design and construct a new Carvolth Sanitary Trunk Sewer that will allow the City to re-route sanitary sewer flows into the new facility.
To: Mayor Fassbender and Councillors  
Date: June 15, 2010  
Subject: City of Langley Sewerage Boundary Adjustment  

Respectfully Submitted,

[Signature]

Gary Vlieg, P.Eng.  
Director of Engineering, Parks & Environment

C.A.O.'S COMMENTS:

This is an operational and financial win-win-win scenario for the City, the Township and Metro Vancouver. It also demonstrates cooperation and partnership between the parties.

[Signature]

Francis Cheung, P. Eng.  
Chief Administrative Officer
Exhibit A

Original Plan

City Sewer to be Upsized to 750 mm
Exhibit B

Proposed Transfer of Ownership

GVS & DD Sewer to be taken over by CoL
To: Mayor Fassbender and Councillors  
Date: June 15, 2010  
Subject: City of Langley Sewerage Boundary Adjustment  
Page 8

Exhibit D

Proposed New Sanitary Sewer Network

- Carvolth to be abandoned
- Carvolth to be upsized
- Alternate alignments for Carvolth
- City sewer to be abandoned
WHEREAS:

A. Pursuant to section 6(1) of the Greater Vancouver Sewerage and Drainage District Act (the “Act”), the objects of the Greater Vancouver Sewerage and Drainage District (the “GVS&DD”) include the construction, maintenance, operation and administration of the major sewerage and drainage facilities of the GVS&DD in substantial accordance with the report of a board of engineers that was submitted September 16, 1953, and that is known as the “Rawn Report”;

B. Section 6(2) of the Act provides that the GVS&DD has the right to perform work requisite to its function but not included in the Rawn Report and to amend or vary any of the projects recommended in the Rawn Report in a manner which is not inconsistent with the objects of the Rawn Report, but only with the sanction of a bylaw of the GVS&DD Board passed by a majority of not less than two-thirds of the votes cast;

C. The Rawn Report has been amended by bylaw as follows:

(i) Greater Vancouver Sewerage and Drainage District By-law No. 83 dated January 29, 1970 to add to the list of proposed GVS&DD facilities shown on the plan and tables entitled “Rawn Report Amendment No. 10 – Plan F – Fraser Sewerage Area” which for purposes of identification was signed by the Engineer of the GVS&DD and numbered SK-164;

(ii) Greater Vancouver Sewerage and Drainage District By-law No. 123 dated May 25, 1977 to add to the list of proposed GVS&DD facilities and tables shown on the plan and tables entitled “Amendment No. 13 – Amendment to Plan F – Fraser Sewerage Area” which for purposes of identification was signed by the Engineer of the GVS&DD and numbered SF-1579;

(iii) Greater Vancouver Sewerage and Drainage District By-law No. 151 dated January 28, 1987 to add to the list of proposed GVS&DD facilities and tables shown on the plan and tables entitled “Rawn Report Amendment No. 15 – Plan F – Fraser Sewerage Area” which for purposes of identification was signed by the Engineer of the GVS&DD and numbered SF-1794;

(iv) Greater Vancouver Sewerage and Drainage District By-law No. 245 dated October 31, 2008 to modify the list of proposed GVS&DD facilities and tables shown on the plan and tables entitled “Amendment to Plan F – Fraser Sewerage Area -Rawn Report Amendment No. 20” which for purposes of identification was signed by the Deputy Chief Administrative Officer of the GVS&DD and the Manager, Policy & Planning and numbered SF-2342, Sheet 1

(together, the “Plan F Bylaw Amendments”):
D. The GVS&DD wishes to amend and vary certain projects recommended in the Rawn Report, in a manner which is not inconsistent with the objects of the Rawn Report;

NOW THEREFORE the Board of the Greater Vancouver Sewerage and Drainage District in open meeting assembled enacts as follows:

1. The projects known as and recommended in the Rawn Report as “Plan F – Fraser Sewerage Area,” as amended and varied by the Plan F Bylaw Amendments, are further amended and varied as follows:

   (a) by deleting a portion of the facility generally known as the "Langley Connection" from the list of proposed GVS&DD facilities and tables in the Rawn Report;

   as shown on the plan entitled “Amendment to Plan F Fraser Sewerage Area Rawn Report Amendment No. 21” and numbered SF- 2342, Sheet 3., which is attached to and forms part of this Bylaw

2. The official citation for this Bylaw is the “Greater Vancouver Sewerage and Drainage District Amendment of Plan F – Fraser Sewerage Area to Modify the Langley Servicing Plan Bylaw No. 257, 2010”

3. This Bylaw may be cited as the “Rawn Report Amendment No. 21 Bylaw”.

4. This Bylaw comes into force and takes effect on the date of final adoption.

READ A FIRST, SECOND AND THIRD TIME this ____ day of __________________, 2010.

RECONSIDERED, PASSED AND FINALLY ADOPTED this ____ day of __________________, 2010.

_______________________________________________
Lois Jackson, Chairperson

_______________________________________________
Paulette A. Vetleson, Secretary
CITY OF
SURREY
FRASER SEWERAGE
AREA
CITY OF
LANGLEY

ATTACHMENT 5
WMA-39

LEGEND

Existing CSWD Sewers; To Remain Owned & Operated By CSWD

City of Langley

Council Resolution 12-0627 – Amend Attachment 5 – WMA-39

AMENDMENT TO PLAN F

FRASER SEWERAGE AREA

2010-06-21
T. CAUSSA/NPC Projects 10552.04/4
WMA-39
Waste Management Committee Meeting Date: July 21, 2010

To: Waste Management Committee

From: Heather Schoemaker, Manager, Corporate Relations
       Dan Hajdukovic, Division Manager, Policy and Planning

Date: July 11, 2010

Subject: 2010 Zero Waste Conference

Recommendation:


1. PURPOSE

This report is a proposal for a Zero Waste Conference to be hosted by Metro Vancouver in the fall of 2010.

2. CONTEXT

Following Metro Vancouver attendance at the Recycling Council of British Columbia 2010 Zero Waste Conference, the Chair of the Waste Management Committee requested staff to propose a conference focused on Zero Waste initiatives by Metro Vancouver. The conference will be a forum for different stakeholders of zero waste – business, municipalities, provincial government, community representatives, the public, etc.

Metro Vancouver adopted a Zero Waste Challenge in 2006 and has a goal of achieving a minimum 70% waste diversion by 2015. The proposed 2010 Metro Vancouver Zero Waste Conference is seen as the first in a series of conferences on the topic of zero waste. The inaugural conference will take place in October/November 2010, launching the next phase of Metro Vancouver’s Zero Waste strategy engaging discussion, debate and collaboration on strategies and actions towards achieving higher solid waste reduction and diversion in the region. A one-day event, the conference will be built around the notion of “learning from each other and learning what Metro Vancouver is doing”. The agenda will include opening and closing remarks by the Metro Vancouver Board Chair and/or Waste Committee Chair, a keynote speaker on the topic of zero waste, a presentation on Metro Vancouver’s Zero Waste Strategy and break-out sessions to address topics such as solid waste and recyclable material components; residential, multi-family, and business recycling; 3R tactics, measurement, reporting etc.

Staff and elected representatives from member municipalities, provincial government representatives, business community representatives, community representatives and the public will be invited to attend. Attendance is anticipated to be between two and three hundred individuals. The budget for this conference is estimated at $20,000 to $25,000; however, every effort will be made to reduce costs, including the use of a municipal or regional facility to host the conference and a nominal registration fee of $100.00. (Staff are currently looking for an appropriate venue to hold the Conference.)
A key objective and benefit of the Zero Waste Conference will be the coordination and integration of effort between local, regional and provincial government, business community and residents in achieving enhanced waste reduction reuse and recycling within the Metro Vancouver region.

3. ALTERNATIVES

None.

4. CONCLUSION

The proposed 2010 Metro Vancouver Zero Waste Conference affirms Metro Vancouver's commitment and leadership to minimizing waste generation and maximizing reuse, recycling and material recovery. The conference will launch Metro Vancouver’s zero waste strategy engaging key stakeholders across the region in strategies and actions to increase solid waste reduction and diversion in the region. The Conference is proposed for October or November 2010 and we anticipate attendance of between two and three hundred individuals.

(4199363)
To: Waste Management Committee

From: Dan Hajdukovic, Division Manager, Policy & Planning

Date: July 13, 2010

Subject: Zero Waste Challenge Action Plan

Recommendation:


1. PURPOSE

To present to the Waste Management Committee the draft Zero Waste Challenge Action Plan.

2. CONTEXT

In 2006, Metro Vancouver adopted a Zero Waste Challenge with a goal to achieve a minimum 70% diversion by 2015 and formalized this commitment in Goal 1 (minimize waste generation) and Goal 2 (maximize reuse, recycling and material recovery) of the draft Integrated Solid Waste Resource Recovery Management Plan (ISWRMP).

The action plan presented in this report outlines the key strategic considerations in the implementation of the draft ISWRMP Goals 1 and 2, presents actions for 2010, 2011, 2012-2015 and sets out the foundation for greater diversion and economic transformation beyond 2015.

The Plan presents actions by source material: Organic, Wood, Paper and Plastic. Each action notes references to the ISWRMP implementation plan’s goal, strategy and action (2.4.1 notation means such action supports, Goal 1, Strategy 4 and Action 1. Notations in bold fonts are actions that have a more direct support.)

Each action is also identified to reside in one or more 3Rs of the Zero Waste Challenge: Reduce as R1, Reuse as R2 and Recycle as R3.

Next Steps

The draft Zero Waste Challenge Action Plan will be presented for discussion to municipal staff through REAC Solid Waste Subcommittee, as well as to the Municipal Waste Recyclers Committee. In addition, the Action Plan will be presented to representatives of the business community (product stewards, waste haulers, brokers, processors etc.) and other solid waste stakeholders. The finalized Zero Waste Challenge Action Plan will be presented to the Waste Management Committee in the fall of 2010 for approval.
The Zero Waste Challenge Action Plan will then be rolled-out during the Metro Vancouver Zero Waste Conference in October/November, 2010.

3. ALTERNATIVES

None presented.

4. CONCLUSION

Metro Vancouver and the member municipalities desire greater action on waste reduction and diversion to a minimum of 70 percent by 2015. This draft Action Plan lays out the specific actions necessary to achieve this goal.

Attachment:
Zero Waste Challenge Action Plan

#4258169
# Zero Waste Challenge Action Plan

**OBJECTIVE**
- Implement Goal 1 of the ISWRMP: Minimize waste generation
- Implement Goal 2 of the ISWRMP: Maximize reuse recycling and material recovery

**PURPOSE**
- Achieve a minimum of 70 percent solid waste diversion rate by 2015
- Provide strategic direction for the implementation of the ISWRMP to 2015 and beyond

## Key strategic considerations in the Action Plan development

**MATERIAL HIERARCHY** (Materials Disposed, Diversion Programs and Required Diversion)

<table>
<thead>
<tr>
<th>Waste Material</th>
<th>Description</th>
<th>Quantity Disposed (tonnes)</th>
<th>Diversion Program</th>
<th>Required Capture (tonnes)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Organics</td>
<td>Food</td>
<td>335,000</td>
<td>Composting, Biofuel</td>
<td>170,000</td>
</tr>
<tr>
<td></td>
<td>Yard Waste</td>
<td>85,000</td>
<td>Composting</td>
<td>60,000</td>
</tr>
<tr>
<td></td>
<td>Compostable Paperboard</td>
<td>55,000</td>
<td>Composting, Biofuel</td>
<td>35,000</td>
</tr>
<tr>
<td>Wood</td>
<td>DLC Wood (from demolition and construction)</td>
<td>240,000</td>
<td>Mandatory Recycling, Wood Drop Off</td>
<td>155,000</td>
</tr>
<tr>
<td>Paper</td>
<td>Non-Compostable Paper and Paperboard</td>
<td>250,000</td>
<td>Paper Use Practices, Extended Producer Responsibility</td>
<td>130,000</td>
</tr>
<tr>
<td>Plastic</td>
<td>Plastic</td>
<td>190,000</td>
<td>Mandatory Recycling</td>
<td>30,000</td>
</tr>
<tr>
<td></td>
<td>E-Waste and Small Appliances</td>
<td>27,500</td>
<td>Extended Producer Responsibility</td>
<td>20,000</td>
</tr>
<tr>
<td>Social Norms</td>
<td>Increase the effectiveness of all diversion activities</td>
<td></td>
<td>Media, community engagement, CBSM</td>
<td></td>
</tr>
</tbody>
</table>

**Total** 600,000
HEIRARCHY OF BEST USE

**ORGANICS**
- Grow your own
- Buy from local growers
- Farmers markets
- Slow food

**WOOD**
- Building code change
- Design for deconstruction
- EPR
- Skills education

**PAPER**
- Buy what you'll use
- EPR
- 2-sided printing

**PLASTIC**
- Eliminate plastic packaging
- EPR

**REDUCE**
- Food for people
- Food for animals
- Food for industrial production

**REUSE**
- Value-added products
- Recertified lumber
- Structural Reuse
- Non-structural reuse

**RECYCLE**
- On-site composting
- Composting with energy recovery
- Composting without energy recovery

**RECOVER**
- Wood for particle board
- Wood for pulp
- Composting
- Chipped wood for fuel

**RESIDUALS**
- Recycled paper
- Animal bedding
- Composting

- Recycle into same grade
- Recycle into composite

- Composting without energy recovery
- Wood for pulp
- Composting
- Chipped wood for fuel

- Grow your own
- Buy from local growers
- Farmers markets
- Slow food

- Food for people
- Food for animals
- Food for industrial production

- Value-added products
- Recertified lumber
- Structural Reuse
- Non-structural reuse

- On-site composting
- Composting with energy recovery
- Composting without energy recovery

- Recycled paper
- Animal bedding
- Composting

- Composting without energy recovery
- Recycle into same grade
- Recycle into composite

- Residuals
- Landfill

WMA-46
Strategic Levers

Levers that change the external environment
• Regulation
• Infrastructure
• Information/Education

Levers that change the internal environment
• Habit
• Cognition

Levers that change the social environment
• Social Norms

Strategic Shifts

In order to achieve the solid waste diversion required by the ISWRMP, in accordance with the sustainability imperatives and the twelve sustainability principles adopted by the Metro Vancouver Board to guide our work, we see the following Strategic Shifts as necessary:

• Before recycling, reduction of waste is the primary focus – shifting from a linear cradle-to-grave economy to a circular cradle-to-cradle economy reduces waste upstream, which is more effective and affordable than end-of-pipe solutions. Reduction must be prioritized in budgets and with staff if it is to be achieved.

• Our work plan will be filtered for high impact ‘triage’ actions and longer-term foundational work and social shifts.

• Recognizing that monetary cost is not a true measure of value, tactics will be based on full, true costs and polluter-pays producer responsibility.

• Rethinking waste generation and changing social norms are primary streams of work in addition to reduction and recycling. Important cultural shifts will include: from infinite resource to a finite planet; the recognition that there is no ‘away’ in which garbage can be thrown; from disposable to heirloom and durable; and towards mindfulness, a ‘code of conduct’ and walking the talk.

• The full breadth of policy options to foster behaviour change will be used, by recognizing the actual cognitive and physical capacity of the audience.

• To leverage the speed and effectiveness of Metro’s staff, while lowering costs, strategic partnerships will be pursued. Consultation and collaboration, as required by the Sustainability Framework, will be used at every level.

• Metro’s position as a regional body can facilitate coordinated use of recycling commodities, either for sale or to develop local recycling and remanufacturing markets. Zero Waste business and industrial development can be enhanced by a group modelled on London Remade.
**Actions**

**Organics**

**CURRENT SITUATION:**

- Fraser Richmond Soil and Fibre composting facility with a current capacity of approximately 180,000 tonnes of yard trimmings and 50,000 tonnes of food scraps and soiled paper.
- Other licensed and unlicensed organics facilities include: Baird Border Feed Lot (not accepting material), International Bio-Recovery (not accepting material), West Coast Instant Lawns (unlicensed, capacity unknown).
- MV Board approved Surrey biofuel facility to be constructed in 2011. Projected capacity at 80,000 tonnes.
- Five municipalities collect food scraps commingled with yard trimmings (Port Coquitlam, Port Moody, Richmond, Vancouver and Burnaby).
- Most municipalities collect yard trimmings from single family residents. The ICI sector also delivers yard trimmings to the drop-off points in the region.
- Based on 2009 Waste Composition, there is approximately 460,000 tonnes of compostable organics (food waste and soiled paper) disposed annually in the waste stream.

**2010 ACTIVITIES:**

- Current state study for organics, including the following:
  - generation patterns and current practices in sub-sectors
  - capacity for and barriers to food reuse
  - food waste availability/location
  - proportions pre-consumption vs. post-consumption waste
  - backyard composting rates
  - garburator use and additions to MSW
  - site composting options and new technologies
- Watch Your Waste public engagement campaign (1.3.1, R1-3)
- Support the ZWC initiatives with consistent and effective messaging and lifestyle articles in targeted journals and websites (1.3, R1-3)
- Metro Vancouver Zero Waste Conference (1.1.1, 2.1.4, 2.2.3, 2.2.7 c, 2.3.2, R1-3)
- Complete Multi Family CBSM pilot studies in MVHC and private property managers (1.3.1, 2.6.2, c (ii), 2.8.2, R1-3)
- Complete the Stadium and Arenas Waste Reduction Guideline (1.3.2, 2.2.5 a, R1&3)
- Complete the Food Services Organics Diversion pilot study (1.3.2, 2.6.2 c, R1-3)
- Complete the Public Events Guideline (1.3.2, 2.2.5 b, R1-3)
- Assess the effectiveness of disposal bans and possible alternative enforcement models including enforcement at source (2.2.1 d, R1-3)
- Conduct workshops with member municipalities to foster materials sharing, investigate hauler franchising options, and to provide sample specifications, municipal bylaw and implementation guides for mandatory organics recycling (2.2.1, 2.2.2 b, 2.2.3, R3)
- Develop a comprehensive implementation plan and business models for regional/municipal composting/biofuel facilities (2.6.2 a, R3)
- Evaluate options for processing organics with biosolids and other utility residuals (2.6.1, R3, Actions)
2011 ACTIVITIES:

- Watch Your Waste public engagement campaign (1.3.1, R1-3)
- Support the ZWC initiatives with consistent and effective messaging and lifestyle articles in targeted journals and websites (1.3, R1-3)
- Investigate the tools required to ensure all take-out food ware can be recycled (1.1.1, 2.8.2, 2.8.3, R3)
- Through the 2011 Tipping Fee Bylaw continue incentive for green waste - reduced tipping fee (1.2.1, 2.2.1, R3)
- Determine suitability for Love Food – Hate Waste programs (1.3.1, R1-2)
- Ongoing testing of waste diversion message salience and results (1.3.1, 1.3.2, 2.2.2, 2.2.5, 2.7.1 a, 2.6.2 d, 2.9.1, R1-3)
- Extend the Neighbourhood Zero Waste Challenge to all municipalities (1.3.1, R1-3)
- Develop the ICI food diversion for reuse program (2.1.1, R2, Actions)
- Develop a business model for high-quality value, source separated and non-contaminated recyclables (2.1.1, 2.3.4, R3)
- Conduct workshops with member municipalities to foster materials sharing, investigate hauler franchising options, and to provide sample specifications, municipal bylaw and implementation guides for mandatory organics recycling (2.2.1, 2.2.2 b, 2.2.3, R3)
- Establish National Zero Waste Marketing Council (1.1.6, 2.1.4, R1-3)
- Establish International Group for Municipalities on Zero Waste (1.1.6, 2.1.4, R1-3)
- Review desirability and opportunity for establishing a non-profit organization to facilitate the development of recycling business and markets (2.3.2 b, R3)
- Public Events Guideline implementation (2.2.5 c, R1-3)
- Stadium and Arenas Waste Reduction Guideline implementation (2.2.5 c, R1-3)
- Enable the implementation of additional organics processing facilities in the region with a total capacity as high as the market will allow (2.6.2, R3)
- Food Services Organics Diversion Best Practices Guideline implementation (2.6.2 c (iii), R1-3)
- Develop draft Multi Family Recycling Guidelines (2.6.2 c (ii), 2.9.1, R3)
- Develop the ICI Yard Waste Best Practices Guideline (2.6.2 c (iii), R3)

2012-15 ACTIVITIES:

- Hauler licensing by 2012 (2.2.1 a, 2.2.3, R3)
- Implement the business model for high-quality value, source separated and non-contaminated recyclables by 2013 (2.1.1, 2.3.4, R3)
- Mandate organics collection service levels for all multi family and commercial buildings by 2013 (2.2.1 f, 2.9.1, R3)
- Implement the Restaurant and Food Service Waste reduction Guidelines by 2013 (2.6.2 c (iii), R1-3)
- Implement the Multi Family Recycling Guidelines by 2013 (2.2.1, 2.9.1 b, R3)
- All municipalities to ensure the MF and ICI collection of food waste by 2014:
• Facilitate standardization of food waste and yard trimmings collection across the region with municipalities (2.2.3, R3)

• Develop a guidelines for municipalities-enforced bylaws for groceries and restaurants (2.9.1 a, R3)

• Ensure necessary pricing structure to support food scraps collection and recycling so that the incentive to recycle outweighs disposal options (1.2.1, 2.2.1, 2.6.2 e, R1&3)

• Enable on-site community composting programs as an alternative to traditional collection by 2014 (1.3.1, 2.2.3, 2.6.2 a, R1)

• Introduce green education programs by adding waste reduction practices to K-12 and post-secondary curriculum by 2014 (1.3.1, R1-3)

• Implement the ICI food diversion for reuse program by 2014 (2.2.1, 2.1.3, R2)

• Ban organics from disposal and waste to energy other than anaerobic digestion by 2015 (1.2.1 a, 2.2.1 c, R1-3)

• Watch Your Waste public engagement campaign (1.3.1, R1-3)

• Support the ZWC initiatives with consistent and effective messaging and lifestyle articles in targeted journals and websites (1.3, R1-3)

• Ongoing testing of waste diversion message salience and results (1.3.1, 1.3.2, 2.2.2, 2.2.5, 2.7.1 a, 2.6.2 d, 2.9.1, R1-3)

• Conduct workshops with member municipalities to foster materials sharing, investigate hauler franchising options, and to provide sample specifications, municipal bylaw and implementation guides for mandatory organics recycling (2.2.1, 2.2.2 b, 2.2.3, R3)

• Ongoing organics ban support in ICI sector (2.2.1 b, R1-3)
Wood

CURRENT SITUATION:

- A network of private businesses that accept land clearing, demolition, renovation, construction and manufacturing wood waste for recycling by chipping it to supply as product primarily to the fuel market. In 2008 the four largest wood waste processors operated at 80% of their capacity; they managed 500,000 tonnes of wood waste of which 250,000 came from the Metro Vancouver region.
- Clean wood waste drop-off at one regional transfer station.

2010 ACTIVITIES:

- Current state study for wood, including the following:
  - generation patterns and current practices in sub-sectors
  - capacity for and barriers to wood reuse
  - proportions pre-consumption vs. post-consumption waste
- Metro Vancouver Zero Waste Conference (1.1.1, 2.1.4, 2.2.3, 2.2.7 c, 2.3.2, R1-3)
- Watch Your Waste public engagement campaign (1.3.1, R1-3)
- Support the ZWC initiatives with consistent and effective messaging and lifestyle articles in targeted journals and websites (1.3, R1-3)
- Develop a comprehensive business plan for regional/municipal convenient drop-off facilities (2.2.4 a b, 2.2.7 d, R3)
- Conduct workshops with member municipalities to foster materials sharing, investigate hauler franchising options, and to provide sample specifications, municipal bylaw and implementation guides for mandatory construction waste recycling (2.2.1, 2.2.2 b, 2.2.3, R3)
- Evaluate viable wood manufacturing businesses that can incorporate wood waste as feedstock (2.1.1, R2)
- Assess the effectiveness of disposal bans and possible alternative enforcement models including enforcement at source (2.2.1 d, R1-3)
- Review desirability and opportunity for establishing a non-profit organization to facilitate the development of recycling business and markets (2.3.2 b, R3)
- Complete Renovation Pilot to assess applicability of draft wood-diversion guidelines from single-family home renovations (2.4.1 b, R1-3)

2011 ACTIVITIES:

- Advocate for the Extended Producer Responsibility for construction materials packaging (1.1.1, R1&3)
- Watch Your Waste public engagement campaign (1.3.1, R1-3)
- Support the ZWC initiatives with consistent and effective messaging and lifestyle articles in targeted journals and websites (1.3, R1-3)
- Ongoing testing of waste diversion message salience and results (1.3.1, 1.3.2, 2.2.2, 2.2.5, 2.7.1 a, 2.6.2 d, 2.9.1, R1-3)
- BuildSmart website review and rewrite including (1.3.2, 2.4):
  - waste minimization techniques: design for adaptability and deconstruction, advanced framing, modular design (R1)
  - policies to that encourage salvage and deconstruction (R2)
  - best practices for constructions waste management (R3)
- Investigate sources/generators of other construction waste materials (rock, sand, dirt, ceramic, bricks, concrete blocks etc.), barriers to diversion including the tipping fee structure (2.1.1, 2.2.1, R1-3)

- Partner with forest product associations, other levels of government and economic development associations to develop and establish markets for wood waste value-added products (2.1.1, 2.1.4, R2)

- Develop a business model for high-quality value, source separated and non contaminated recyclables (2.1.1, 2.3.4, R3)

- Establish National Zero Waste Marketing Council (1.1.6, 2.1.4, R1-3)

- Conduct workshops with member municipalities to foster materials sharing, investigate hauler franchising options, and to provide sample specifications, municipal bylaw and implementation guides for mandatory construction waste recycling (2.2.1, 2.2.2 b, 2.2.3, R3)

- Conduct waste composition study at construction waste disposal sites (2.2.1 d, R3)

- Establish regulatory requirements for retailer DLC depots (2.3.2, 2.7.1, 2.7.5, R3)

- Review existing DLC recycling and processing capacity, project future needs develop strategy to address identified gaps (2.7.1, R3)

- Advocate for the development of a grading system for salvaged wood (2.7.3, 2.7.6, R2)

### 2012-15 ACTIVITIES:

- Ban wood waste from landfill disposal by 2012 (1.2.1 a, 2.2.1 c, 2.7.5, R1-3)

- Implement convenient drop-off facilities with a total capacity exceeding the required wood waste capture by 2012 (2.2.4, 2.2.7 d, R3)

- Facilitate the municipal-implemented policies that encourage salvage and deconstruction by 2012 (2.7.1, 2.7.3, R2)

- Mandate demolition and construction sectors wood waste reduction and recycling practices by 2013 (2.7.1, 2.7.4, R1-3)
  - Develop bylaw guidelines for mandating waste reduction and recycling through the municipal demolition and building permitting systems by 2012
  - Facilitate the implementation of the mandated waste reduction and recycling requirements across the region with member municipalities by 2013

- Implement regulatory requirements for retailer DLC depots by 2014 (2.7.4, R3)

- Implement a business model for high-quality value, source separated and non contaminated recyclables by 2014 (2.1.1, 2.3.4, R3)

- Mandate construction waste collection and recycling by 2014 (2.7.4, R3)
• Introduce green education programs by adding waste reduction practices to K-12 and post-secondary curriculum by 2014 (1.3.1, R1-3)

• Facilitate promotion/education of waste minimization design techniques by 2014 (1.3.1, 2.7.1 b, R1)

• Construction and demolition sectors wood waste reduction guidelines development and implementation by 2013 (2.4.1 b, R1-3)

• Develop and implement training and certification programs for demolition/deconstruction contractors by 2014 (2.7.1 b, R1-3)

• Advocate provincial government to include salvaged-wood use in building code by 2015 (2.7.6, R2)

• Develop and implement a policy that reflects the priority hierarchy for the best use of diverted wood waste by 2015, (2.7.3, R1-3)

• Explore potential outlets for marketing salvaged wood by 2015 (2.1.1, R2)

• Ongoing wood ban support in ICI sector (2.2.1 b, R1-3)
**Paper**

**CURRENT SITUATION:**

- Paper and cardboard are banned from disposal
- Private businesses and some municipalities collect and recycle clean paper and cardboard from the residential and ICI sectors
- A few in-region small-scale paper brokers and recyclers

**2010 ACTIVITIES:**

- Advocate EPR for paper and packaging (1.1.1, R1&3)
- Metro Vancouver Zero Waste Conference (1.1.1, 2.1.4, 2.2.3, 2.2.7 c, 2.3.2, R1-3)
- Watch Your Waste public engagement campaign (1.3.1, R1-3)
- Support the ZWC initiatives with consistent and effective messaging and lifestyle articles in targeted journals and websites (1.3, R1-3)
- Getting to Zero Recycling Tip Sheets for Businesses (1.3.2, 2.2.2 a c, R1-3)
- CBSM program research phase for commercial office sector (2.5.2 b, 2.5.3, R1-3)
- Paper ban support in ICI sector (2.2.1 b, R1-3)
- Analyze the effectiveness of disposal ban and possible alternative enforcement models including enforcement at the source (2.2.1 d, R1&3)
- Assess implementation strategies for mandatory recycling requirements (2.2.1 d, R1&3)
- Evaluate a business case for a regional scale recycling services delivery model (2.3.4, R3)
- Investigate alternatives to single-use, short-life items such as junk mail, transit paper, coffee cups etc. (2.5.1, 2.5.3, R1)
- Develop a comprehensive plan for regional/municipal convenient drop-off facilities (2.6.2 a, 2.2.7 d, R3)
  - Paper recycling/diversion state of business study
  - Drop-off facility feasibility study

**2011 ACTIVITIES:**

- Advocate EPR for paper and packaging (1.1.1, R1&3)
- Watch Your Waste public engagement campaign (1.3.1, R1-3)
- Support the ZWC initiatives with consistent and effective messaging and lifestyle articles in targeted journals and websites (1.3, R1-3)
- Develop a business model for high-quality value, source separated and non-contaminated recyclables (2.1.1, 2.3.4, R3)
- Establish National Zero Waste Marketing Council (1.1.6, 2.1.4, R1-3)
- Establish International Group for Municipalities on Zero Waste (1.1.6, 2.1.4, R1-3)
- Paper ban support in ICI sector (2.2.1 b, R1-3)
- In collaboration with municipalities, undertake a business case review of the regional ICI waste and recycling collection services to implement the appropriate level of consistency (2.2.3, R3)
- Facilitate siting of private sector recycling activities (2.3.2, R3)
- Review desirability and opportunity for establishing a non-profit organization to facilitate the development of recycling business and markets (2.3.2 b, R3)
- Test alternatives to single-use, short-life items such as junk mail, transit paper, coffee cups etc. (2.5.1, 2.5.3, R1)
• Investigate alternatives to paper towel use (2.5.1, 2.5.3, R1)

• CBSM program testing phase for commercial office sector (2.5.2 a, R1-3)

• Test printing-feedback software in MV Head Office and select private businesses (2.5.2 b, R1)

• Coordinate regional and municipal effort re. options and opportunities for implementing mandatory recycling in commercial buildings (2.9.1, R3)

2012-15 ACTIVITIES:

Implement convenient drop-off facilities with a total capacity exceeding the required paper and cardboard waste capture by 2012 (2.2.4, 2.2.7 d, R3)

Test printing feedback software in MV Head Office and select private businesses by 2012 (2.5.2, R1)

CBSM program implementation phase for commercial office sector by 2014 (2.5.2 b, R1-3)

Facilitate the implementation of the printing-feedback software in ICI sector by 2014 (2.5.2 b, R1)

Facilitate the implementation of alternatives to single-use, short-life items such as junk mail, transit paper, coffee cups etc. by 2014 (2.5.1, 2.5.3, R1)

Facilitate the implementation of paper towel alternative by 2014 (2.5.1, 2.5.3, R1)

Advocate and facilitate regional implementation of the Extended Producer Responsibility for office paper and packaging by 2015 (1.1.1, R1&3)

Increasing municipal recycling service levels to multi family, schools and other institutions by 2015 (2.5.2 b, 2.2.7 f, R3,)

Ongoing paper ban support in ICI sector (2.2.1 b, R1-3)
Plastic (and E-waste)

CURRENT SITUATION:

• Blue box recyclables and e-waste are banned from disposal
• Private businesses and some municipalities collect and recycle plastic materials from the residential and ICI sectors

2010 ACTIVITIES:

• Advocate EPR for packaging (1.1.1, R1&3)
• Metro Vancouver Zero Waste Conference (1.1.1, 2.1.4, 2.2.3, 2.2.7 c, 2.3.2, R1-3)
• Watch Your Waste public engagement campaign (1.3.1)
• Support the ZWC initiatives with consistent and effective messaging and lifestyle articles in targeted journals and websites (1.3, R1-3)
• Getting to Zero Recycling Tip Sheets for Businesses (1.3.2, 2.2.2 a c, R1-3)
• Plastic ban support (2.2.1 b, R1-3)
• Analyze the effectiveness of disposal ban and possible alternative enforcement models including enforcement at the source (2.2.1 d, R1&3)
• Assess implementation strategies for mandatory recycling requirements (2.2.1 d, R1&3)
• Evaluate a business case for a regional scale recycling services delivery model (2.3.4, R3)
• Develop a comprehensive plan for regional/municipal convenient drop-off facilities (2.6.2 a, 2.2.7 d, R3)
  • Plastic recycling/diversion state of business study
  • Drop-off facility feasibility study
• CBSM retail/grocery pilot to test prompts and reminders for reusable bags (2.8.1 b, R1&2)
• Investigate alternatives to single-use, short-life items such as plastic bags, water bottles, styrofoam etc. (2.8.1 b, R1)

2011 ACTIVITIES:

• Advocate EPR for packaging (1.1.1, R1&3)
• Watch Your Waste public engagement campaign (1.3.1, R1-3)
• Support the ZWC initiatives with consistent and effective messaging and lifestyle articles in targeted journals and websites (1.3, R1-3)
• Establish National Zero Waste Marketing Council (1.1.6, 2.14, R1-3)
• Establish International Group for Municipalities on Zero Waste (1.1.6, 2.1.4, R1-3)
• Plastic ban support (2.2.1 b, R1-3)
• Develop a business model for high-quality value, source separated and non contaminated recyclables (2.1.1, 2.3.4, R3)
• In collaboration with municipalities, undertake a business case review of the regional recycling collection services to implement the appropriate level of consistency (2.2.3, R3)
• Facilitate siting of private sector recycling activities (2.3.2, R3)
• Review desirability and opportunity for establishing a non-profit organization to facilitate the development of recycling business and markets (2.3.2 b, R3)
• Test alternatives to single-use, short-life items such as plastic bags, water bottles, styrofoam etc. (2.8.1 b, 2.8.2, R1)
• CBSM retail/grocery prompts and reminders implementation for reusable bags (2.8.1 b, 2.8.2, R1&2)

• Coordinate regional and municipal effort re. options and opportunities for implementing mandatory recycling in multi family commercial buildings (2.8.2, 2.9.1, R3)

2012-15 ACTIVITIES:

• Implement convenient drop-off facilities with a total capacity exceeding the required plastic waste capture by 2012 (2.2.4, 2.2.7 d, R3)

• Increasing municipal recycling service levels to multi family, schools and other institutions by 2014 (2.2.7 c, 2.2.7 f, R3)

• Facilitate the implementation of alternatives to single-use, short-life items such as plastic bags, water bottles, styrofoam etc. by 2014 (2.8.1 b, 2.8.2, R1)

• Advocate and facilitate regional implementation of the Extended Producer Responsibility for packaging, e-waste and small appliances by 2015 (1.1.1, R1&3)
**Behaviour Change**

- Ongoing plastic ban support *(2.2.1 b, R1-3)*

**CURRENT SITUATION:**

- Public awareness campaigns informing of the need for waste reduction and recycling-usually focussed on seasonal activities or specific waste reduction initiatives

**PROPOSED ACTIVITIES:**

- Develop a comprehensive strategy that will incorporate the best science on how behaviour change happens
- Re-frame messaging to maximize effectiveness by aligning with existing mental models
- Poll to identify key identity archetypes among major cultural groups in the region
- Collaborate/partner with organizations to reduce number of recycling/reuse websites *(MetroVancouverRecycles)* in the region
- Walk the talk at Metro Vancouver
- Build 3Rs.ca
- Develop and implement standard colours, icons and images for solid waste in the region
- Develop regional social marketing infrastructure including:
  - Unused transit space
  - Metro Vancouver and municipal property
  - Web video
- Develop a public learning process on a Full Circle Economy
- Form National Full Circle Economy Working Group
- Host standard graphics on website and promote to municipalities and businesses
- Work with municipalities to promote public place recycling common practices
- Lead collaboration to leverage national and provincial communications
  - Collaboration will reduce message dilution caused by competing municipal brands.
  - Gains attention and builds broad awareness of the need to reduce waste
  - Reaches broad audiences efficiently by including several streams of activities, such as working with municipalities, gaining earned media, purchasing advertising and online/social media engagement
- Stimulate personal actions that help give campaigns a positive element, and generates momentum
To: Waste Management Committee

From: Toivo Allas, Manager, Policy and Planning Department

Date: July 12, 2010

Subject: Managers' Report

Recommendation:

That the Waste Management Committee receive for information the report dated July 12, 2010, titled “Managers' Report”.

1. Table of 2010 Priorities – Toivo Allas

Attached is the updated Waste Management Committee 2010 Work Plan (table of priorities) indicating the quarter that the priority will be considered by the Waste Management Committee. Completed items are shown in bold.

2. Zero Waste Challenge Campaign Update

TaiwanFest 2010:
Metro Vancouver is collaborating with the organizers of TaiwanFest 2010, building on waste diversion initiatives implemented at TaiwanFest 2009. Waste separation stations will be staffed by volunteers to improve the sorting of solid waste generated by attendees. Festival organizers are requiring all food vendors to use reusable, recyclable, or compostable foodware. To reduce waste at its source, organizers are banning the sale of bottled water.

London Drugs:
Metro Vancouver’s computer re-use pilot in cooperation with London Drugs and Free Geek concluded in February 2010. Prior to the pilot, all computers returned to London Drugs were sent for recycling. Supporting Metro Vancouver’s emphasis on reuse before recycling, London Drugs agreed to divert appropriate computers to Free Geek’s Computer Adoption program where volunteers learn how components of a computer fit together, as well as some basic repair skills. Computers refurbished at Free Geek are provided to non-profit and community groups and sold within Free Geek’s thrift store to support their operations. The sixth computer volunteers refurbish is theirs to take home. Identifying no barriers or logistical issues with this process, London Drugs has now agreed to make the diversion of appropriate computers for reuse at Free Geek a permanent part of their operations commencing at the end of April 2010.
**BC Pharmacy Association:**
The BC Pharmacy Association has asked Metro Vancouver to collaborate on a second behavioural change demonstration project. In addition to prompting residents to return unused medications for appropriate disposal, the proposed campaign would encourage people to talk to their pharmacist about how to reduce unused medications in the first place.

**Food Scraps Recycling:**
Metro Vancouver completed food scraps recycling pilots in four municipalities. The communications materials that were tested have been made available to all municipalities for their own use. Materials include program messaging, tip sheets, FAQs, artwork and illustrations. As materials are refined, they will continue to be shared.

**Attachment:** Waste Management Committee 2010 Work Plan
## Waste Management Committee 2010 Work Plan

### 1st Quarter

**Key priorities**
- Draft Solid Waste Management Plan
- Federal Fisheries Act Regulation – Metro Vancouver Comments
- 2010 Committee Priorities
- Integrated Solid Waste and Resource Management Plan: Proposed Consultation Program
- 2010 GVS&DD Capital Projects

### 2nd Quarter

**Key priorities**
- Second Regional Organics Processing Facility
- Material Disposal Bans Update
- Zero Waste Challenge Reporting
- Integrated Resource Recovery Study for North Shore Sewerage Area
- Solid Waste Management Plan (Final Plan)
- Development of Additional Food/Organic Waste Facilities
- Establishment of Regional Eco-Centres
- Amendment to Sewer Use Bylaw to promote Source Control through fees
- Status of Capital Expenditures

### 3rd Quarter

**Key priorities**
- Zero Waste Challenge Reporting
- Waste to Energy Facility – NOx Reduction
- Waste to Energy Facility – 2009 Financial Update
- Status of Municipal Food/Organic Waste Diversion Programs
- LWMP Biennial Progress Report

### 4th Quarter

**Key priorities**
- Zero Waste Challenge Reporting
- GVS&DD/Wastech Comprehensive Agreement – 2009 Financial Results
- Status of Capital Expenditures
- Amendment of Sewer Use Bylaw to enhance control of restaurant oil & grease
- 2011 Solid Waste Tipping Fee Bylaw
- 2011 Program and Priorities