

ENVIRONMENT COMMITTEE

*HIS WORSHIP, THE MAYOR
AND COUNCILLORS*

**SUBJECT: REGIONAL INTEGRATED LIQUID WASTE AND RESOURCE
MANAGEMENT PLAN**

RECOMMENDATIONS:

1. THAT Council request Metro Vancouver to work with its member municipalities to re-examine the regional sewer rate structure with respect to the financial implications of the Plan.
2. THAT Council forward a copy of this report to all Burnaby MLAs and to Metro Vancouver, Attention Johnny Carline, Chief Administrative Officer.

REPORT

The Environment Committee, at its meeting held on 2011 September 13, received and adopted the *attached* report providing comments on the conditional approval provided by the BC Minister of Environment for the Regional Integrated Liquid Waste and Resource Management Plan.

Respectfully submitted,

Councillor Dan Johnston
Chair

Councillor Dhaliwal, Sav
Vice Chair

Councillor Anne Kang
Member

Copied to:	City Manager Director Engineering Director Finance Director Planning & Building Chief Building Inspector
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TO: CHAIR AND MEMBERS
ENVIRONMENT COMMITTEE

DATE: 2011 September 07

FROM: DIRECTOR ENGINEERING

FILE: 36600 01

SUBJECT: REGIONAL INTEGRATED LIQUID WASTE AND RESOURCE
MANAGEMENT PLAN

PURPOSE: To provide the Committee and Council with staff comments on the conditional approval provided by the B.C Minister of Environment for the Regional Integrated Liquid Waste and Resource Management Plan (the Plan).

RECOMMENDATIONS:

1. **THAT** the Committee recommend Council to:
 - a) request Metro Vancouver to work with its member municipalities to re-examine the regional sewer rate structure with respect to the financial implications of the Plan; and
 - b) forward a copy of this report to all Burnaby MLA's and to Metro Vancouver, Attention Johnny Carline, Chief Administrative Officer.

REPORT**1.0 INTRODUCTION**

Council is in receipt of a correspondence dated 2011 July 28 from Lois E. Jackson, Chair, Metro Vancouver Board regarding the recent conditional approval received from the B.C. Minister of Environment for the regional Integrated Liquid Waste and Resource Management Plan, and the regional staff summary of implications based on the ministerial conditions (see Attachment #1).

The purpose of this report is to provide the Committee and Council with staff comments on the conditional approval provided by the B.C. Minister of Environment for the Regional Integrated Liquid Waste and Resource Management Plan (the Plan).

2.0 SUMMARY OF KEY CONDITIONS ON THE PLAN

The B.C. Minister of Environment imposed ten (10) conditions in approving the Plan. The key provincial conditions with possible impacts to member municipalities within the region under the Plan are outlined below:

2.1 Condition 1: Treatment Plant Upgrades

The Ministry supports upgrading to secondary level treatment for the Lions Gate wastewater treatment plant by 2020 and the Iona Island wastewater treatment plant as soon as possible, but no later than 2030 and not contingent on the availability of senior government funding.

Metro Vancouver's Assessment of Implications to the Plan:

The Iona Island and Lions Gate wastewater treatment plant upgrades must proceed according to the Plan's timelines irrespective of any senior government cost sharing being in place. It will be necessary to continue to advocate for senior government funding in time for the construction phase of the projects when the most significant expenditures will be made.

Staff Comments on this Condition:

At the 2010 September 20 Council Meeting, Council received and adopted a report from the Chair of the Environment Committee on the Plan. The report highlighted key components of the Plan that require significant municipal commitments and sought endorsement of the municipal specific actions contained in the Plan with conditions. Potential financial implications of those municipal specific actions were outlined for consideration. The recommendations adopted in the report, in part, included supporting in principle the goals contained in the Plan contingent upon:

- a) the three levels of government equally funding the upgrading of the waste water treatment plants for Vancouver and North Shore Sewerage areas, and
- b) Metro Vancouver (MV) addressing concerns of financial implications of adoption of the remaining Plan elements in context of regional affordability prior to its final adoption by MV Board.

Given this condition from the Province, there will be significant cost implications to the region as the treatment plant upgrades will be required to be undertaken within the specified timeframe irrespective of availability of senior government funding. Based on what has been previously reported to Council, according to the Plan the current regional average household levy for Metro Vancouver services varies from \$160-\$180 depending on sewerage area. Without the cost sharing being in place from

senior levels of government, the regional average household levies are estimated to increase by over 600% for the North Shore and Vancouver sewerage area homeowners within the next two decades (see [Figure 1](#)). MV currently is reviewing the existing sewer rate structure within the region with a view to create a simple, transparent and equitable rate across the entire region.

Without the senior government cost sharing in maintaining affordability at the household level, residents in the region will face a significant increase in sewer rates to finance the proposed treatment plant upgrades. It is recommended that MV, in cooperation with its member municipalities, review the regional program costs and rate structure in the context of the legislated requirements stipulated under the Plan.

2.2 Condition 2: Residential Water Conservation

Member municipalities are strongly encouraged to develop business case and/or implement residential water metering programs and to consider municipal rebate programs for water efficient fixtures and appliances to reduce potable water use.

Metro Vancouver's Assessment of Implications to the Plan

The 2011 updating of the Drinking Water Management Plan is proposed to contain actions which align with this condition and will encourage the re-evaluation of business cases that expand water metering.

Staff Comments on this Condition:

Burnaby's utilities are self-sustaining, that is the annual rates charged to consumers cover the system operating and capital costs. For residential properties, flat water rates are charged. For commercial and industrial consumers, the water rates are based on the amount of water consumed. Residential water metering as a stand alone water conservation measure is not cost beneficial. However, staff will assess the overall merits of demand side management programs. With respect to considering municipal rebate program for water efficient fixtures and appliances, the City does subsidize indoor and outdoor water kits and has undertaken a pilot project to subsidize residents upgrading their fixtures (toilets) to more water efficient fixtures.

2.3 Condition 3: Region-wide Water Conservation

Metro Vancouver, in partnership with member municipalities, is encouraged to pursue a region-wide water conservation program targeting the industrial, commercial, institutional and agricultural sectors as part of its new Drinking Water Management Plan. Remaining municipalities in the region that have not implemented metering for these sectors are encouraged to do so.

To: *Environment Committee*
From: *Director Engineering*
Re: *Regional Integrated Liquid Waste and Resource
Management Plan*
2011 September 07..... Page 4

Metro Vancouver's Assessment of Implications to the Plan

Currently, most GVWD members have water metering requirements for certain classes of non-residential users but they will need to review the specific requirements based on this condition. The 2011 updating of the Drinking Water Management Plan contains actions which align with this condition.

Staff Comments on this Condition:

The City currently meters industrial, commercial and institutional facilities and will continue to explore water conservation opportunities in the ICI sector.

2.4 Condition 4: CSO and SSO Monitoring and Reporting

Metro Vancouver must use receiving environment and effluent monitoring data from combined sewer overflow (CSO) and sanitary sewer overflow (SSO) in the regional system to interpret the overall status of CSO's and SSO's. Metro Vancouver will continue the fate and effects studies on CSO with the Clark Drive location and other significant sites as determined by the Environmental (sic) Management (Monitoring) Committee. Metro Vancouver will establish similar studies representative of significant SSO locations, in particular the Cloverdale, Katzie and Lynn locations. The interpretation and assessment should demonstrate whether there has been any improvement or degradation along with any measures taken to address such discharges. Metro Vancouver will report out in the Quality Control Annual Report.

Metro Vancouver's Assessment of Implication to the Plan

This condition requires the continuation of existing CSO and SSO monitoring work and the reassessing of some past monitoring sites. This Condition will require further monitoring and risk assessment specific to the Cloverdale, Katzie and Lynn SSO locations and the type of intermittent overflows that are occurring. The Plan actions include further capital works to mitigate the overflows at these locations.

Staff comments on this Condition:

Burnaby initiated the combined sewer separation program over a decade ago which is proceeding on an annual basis at a uniform rate and targets elimination of combined sewer overflows in the Vancouver Sewerage area by 2050 and in the Fraser Sewerage area by 2075.

2.5 Condition 7: Integrated Stormwater Management Plans (ISMPs) Performance

Member municipalities will, with Metro Vancouver planning and coordination, and to the satisfaction of the Regional Manager, develop a coordinated program to monitor stormwater and assess and report the implementation and effectiveness of ISMPs. The program will use a weight-of-evidence performance measurement approach and will report out in the Biennial Report. The Regional Manager may extend the deadline for completion of ISMP by municipalities from 2014 to 2016 if satisfied that the assessment program could result in improvement of ISMP and protect stream health.

Metro Vancouver's Assessment of Implication to the Plan

Working with MoE's Regional Manager, Metro Vancouver and its members will build upon previous related work developed through the Stormwater Interagency Liaison Group. This condition requires a coordinated program to monitor and assess the effectiveness of municipal ISMPs but the Ministry is also prepared to consider an extension of the municipal ISMP deadline from 2014 to 2016.

Staff comments on this Condition:

The City has already completed a number of ISMPs and the studies for the remaining watersheds are included in future capital plans. The City is on target with delivering required ISMPs by the original 2014 timeline.

The City will work with Metro Vancouver and the MOE's Regional Manager in delivering an appropriate stormwater monitoring program. The scope of the quality/quantity stormwater monitoring program has yet to be developed and cost implications to the City relating to the outcome of this process cannot be estimated at this time. Details of the required scope and costs associated with the stormwater monitoring program will be the subject of a separate report to Council in the future.

2.6 Condition 9: Integrated Land Use Planning and Stormwater Management

One of the goals of the Plan is protecting public health and the environment. In keeping with this goal and to ensure alignment with other national, provincial and regional initiatives, Metro Vancouver and member municipalities are encouraged to:

- Have local land use planning consider the direction provided by the ISMPs;
- Consider how the degree, type and location of land development within a drainage area can affect the long-term health of the watershed;
- Consider how to protect the streams, including the riparian areas that exert an influence on the streams, from long-term cumulative impacts; and

- Use scenarios and forecasting to systematically consider environmental consequences/benefits of different land use approaches prior to build-out (for example, Alternative Future type approaches).

Metro Vancouver's Assessment of the Implication to the Plan

This requirement is most pertinent to member municipalities. MV's Stormwater Interagency Liaison Group is the forum which is best suited to address stormwater issues; however, coordination with municipal planners through forums such as Metro Vancouver's Technical Advisory Committee will be important to successful integration.

Staff Comments on this Condition:

In establishment of an ISMP for a watershed, staff from Engineering, Planning and Parks work collectively to ensure that the protection of public health and the environment are integral to the ISMP. In addition, the City's Environmental Review Committee (ERC) reviews proposed developments within 30 meters of riparian habitat and considers watershed impacts in its decisions.

3.0 COST IMPLICATIONS OF THE PLAN

The Plan comprises of eighty six actions of which thirty action items are specific to municipal actions. The BC Minister of the Environment has now stipulated ten additional conditions on approval of the Plan to be met by Metro Vancouver and member municipalities.

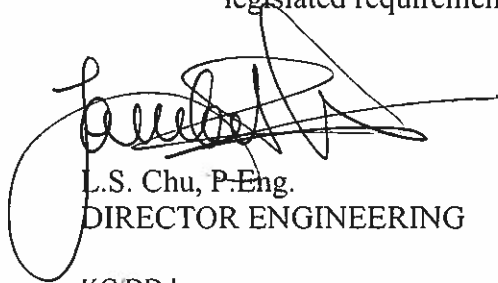
As previously reported, the potential cost implication of specific municipal actions items to Burnaby's future capital and operating budgets is difficult to accurately predict. However, capital costs are expected to be in the magnitude of \$5 million annually. Annual operating costs are estimated at between \$500,000 and \$700,000 depending on the program development activities in a given year, with incremental capital depreciation increase of \$70,000 to \$100,000 each year.

The additional cost implications from the conditional approval granted by the B.C. Minister of Environment particularly for Iona and Lions Gate wastewater treatment plant upgrades without the senior government cost sharing being in place will be significant. Under the current sewerage area and rate structures, the regional average household levies are estimated to increase by over 600% for the North Shore and Vancouver sewerage area homeowners within the next two decades. The current regional average household levy for Metro Vancouver services varies from \$160-\$180 depending on sewerage area.

To: *Environment Committee*
From: *Director Engineering*
Re: *Regional Integrated Liquid Waste and Resource
Management Plan*
2011 September 07..... Page 7

4.0 CONCLUSION

The B.C. Minister of Environment has provided a conditional approval of the regional Integrated Liquid Waste and Resource Management Plan. In reviewing the conditions, staff note that amongst other conditions and related costs, the cost to households within the region to pay for Iona and Lions Gate wastewater sewage treatment plant upgrades without senior government cost sharing being in place will be significant. It is recommended that MV, in cooperation with its member municipalities examine the regional costs and rate structure in the context of the legislated requirements stipulated under the Plan.



L.S. Chu, P.Eng.
DIRECTOR ENGINEERING

KC/DD:br

Copied to: City Manager
Director Finance
Director Planning & Building
Chief Building Inspector

Attachment



metro vancouver

ATTACHMENT #1

4330 Kingsway, Burnaby, BC, Canada V5H 4G8 604-432-6200 www.metrovancouver.org

CLERK'S FILE: 33000-01

Office of the Chair
Tel. 604 432-6215 Fax 604 451-6614

JUL 28 2011

File: CP-18-01-LS5

Mayor Derek Corrigan and Council
City of Burnaby
4949 Canada Way
Burnaby, BC V5G 1M2

Dear Mayor Corrigan and Council:

Re: Integrated Liquid Waste and Resource Management Plan Approval

At its meeting on June 24, 2011, the Greater Vancouver Sewerage and Drainage District Board received a letter dated May 30, 2011 from the BC Minister of Environment providing conditional approval of the *Integrated Liquid Waste and Resource Management Plan*. The Board also received a Staff Summary of Implications table based on the ministerial conditions contained in the approval letter. The Board directed that the letter and summary table be forwarded to GVS&DD member municipal councils.

If you have any questions regarding the letter or ministerial conditions, please contact Albert van Roodselaar, Utility Planning and Environmental Management Division Manager, Metro Vancouver, at (604) 436 6772 or email albert.vanroodselaar@metrovancover.org.

Respectfully I remain,

Lois E. Jackson
Chair, Metro Vancouver Board

LEJ/TA/avr

cc: Regional Administrative Advisory Committee (RAAC)
Regional Engineers Advisory Committee (REAC)

Attachments:

1. Letter dated May 30, 2011 from Minister of Environment Terry Lake to Chair Lois Jackson (5198373)
2. Staff Summary of Implications of Ministerial Conditions (5201543)

COPY: CITY MANAGER DIR.ENGINEERING DIR.FINANCE DIR.PLNG & BLDG.
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BRITISH
COLUMBIA

The Best Place on Earth

Reference: 127948

MAY 30 2011

Lois E. Jackson, Chair
Metro Vancouver Board
Metro Vancouver
4330 Kingsway
Burnaby BC V5H 4H9

Dear Chair Jackson:

Thank you for your letter of June 25, 2010, with the attached Liquid Waste Management Plan (LWMP), the Board resolutions for adopting the plan and a summary of the Metro Vancouver's consultation process. A summary of endorsements confirming each member municipality commitments was received on December 21, 2010.

Ministry staff have reviewed your submission and accompanying documents. The technical aspects of the proposed LWMP are supported, and I am satisfied there has been adequate public review and consultation. However, the LWMP as submitted does not fully meet my requirements. Therefore, I hereby impose the following changes to the submitted LWMP titled *Integrated Liquid Waste and Resource Management: A Liquid Waste Management Plan for the Greater Vancouver Sewerage & Drainage District and Member Municipalities (ILWRMP)* dated May 2010:

1. The Ministry supports upgrading to secondary level treatment the Lions Gate wastewater treatment plant by 2020 and Iona Island wastewater treatment plant as soon as possible, but no later than 2030 and not contingent on the availability of senior government funding. The Ministry of Environment is not a funding agency. While I understand the cost of the upgrades is significant, they are necessary to meet current environmental standards. The Ministry will support Metro Vancouver pursuing senior government and alternative funding options, but cannot guarantee any provincial commitment in that regard, nor compromise the Ministry's mandate to protect the environment.
2. Member municipalities are strongly encouraged to business case and/or implement residential water metering programs and to consider municipal rebate programs for water efficient fixtures and appliances to reduce potable water use.

...2

Ministry of
Environment

Office of the
Minister

Mailing Address:
Parliament Buildings
Victoria BC V8W 1X4

Telephone: 250 387-1137
Facsimile: 250 387-1356

3. Metro Vancouver, in partnership with member municipalities, is encouraged to pursue a region-wide water conservation program targeting the industrial, commercial, institutional and agricultural sectors as part of its new Drinking Water Management Plan. Remaining municipalities in the region that have not implemented metering for these sectors are encouraged to do so.
4. Metro Vancouver must use receiving environment and effluent monitoring data from combined sewer overflow (CSO) and sanitary sewer overflow (SSO) in the regional system to interpret the overall status of CSOs and SSOs. Metro Vancouver will continue the fate and effects studies on CSOs with the Clarke Drive location and other significant sites as determined by the Environmental Management Committee. Metro Vancouver will establish similar studies representative of significant SSO locations, in particular the Cloverdale, Katsie and Lynn locations. The interpretation and assessment should demonstrate whether there has been any improvement or degradation along with any measures taken to address such discharges. Metro Vancouver will report out in the Quality Control Annual Report.
5. Metro Vancouver is encouraged to continue to build upon previous studies associated with studying endocrine-disrupting chemicals, persistent organic pollutants and other micro-contaminants found in wastewater by developing source control initiatives through education (for example, target outreach), regulation and inspection programs.
6. Metro Vancouver will continue the receiving and ambient monitoring programs specified in the approved 2002 LWMP, including, but not limited to, recreational water quality (beach monitoring); monitoring near the outfalls for all five wastewater treatment plants, including the extensive deep sea monitoring near the Iona Island plant; and CSO effluent quality and monitoring of small urban streams relating to impacts from urbanization and stormwater.
7. Member municipalities will, with MV planning and coordination, and to the satisfaction of the Regional Manager, develop a coordinated program to monitor stormwater and assess and report the implementation and effectiveness of Integrated Storm Water Management Plans (ISMP). The program will use a weight-of-evidence performance measurement approach and will report out in the Biennial Report. The Regional Manager may extend the deadline for completion of ISMP by municipalities from 2014 to 2016 if satisfied that the assessment program could result in improvement of ISMP and protect stream health.
8. Bypass conditions that occur at wastewater treatment plants will be reported out in the annual quality control report. The report on each activity will include a description of the event, cause, environmental effect and monitoring that occurred and any mitigation measures undertaken to prevent reoccurrence and remediate detrimental environment effect.

9. The II.WRMP has a goal of protecting public health and the environment. In keeping with this goal and to ensure alignment with other national, provincial and regional initiatives, Metro Vancouver and member municipalities are encouraged to:
- a. Have local land use planning consider the direction provided by the ISMPs;
 - b. Consider how the degree, type and location of land development within a drainage can affect the long-term health of the watershed;
 - c. Consider how to protect the stream, including the riparian areas that exert an influence on the stream, from long-term cumulative impacts; and
 - d. Use scenarios and forecasting to systematically consider environmental consequences/benefits of different land use approaches prior to build-out (for example, Alternative Future type approaches).
10. Metro Vancouver will continue to consult with First Nations during the implementation of the Plan—in particular, engaging, as appropriate, with First Nations likely to be impacted by the secondary upgrades.

Pursuant to Section 24(5) of the *Environmental Management Act*, I hereby approve Metro Vancouver's LWMP titled *Integrated Liquid Waste and Resource Management: A Liquid Waste Management Plan for the Greater Vancouver Sewerage & Drainage District and Member Municipalities* dated May 2010, subject to the conditions noted above.

I commend Metro Vancouver Board and staff on their success in developing a comprehensive master plan to manage the Greater Vancouver Sewerage & Drainage District's liquid waste for years to come.

Sincerely,



Terry Lake
Minister of Environment

cc: Jim Standen, Assistant Deputy Minister, Environmental Protection Division
Jon Braman, Regional Manager South Coast, Environmental Protection Division

Staff Summary of Implications of Ministerial Conditions

Approval Condition from the Minister of Environment	Assessment of Implications to the Plan
<p><i>Treatment Plant Upgrades</i></p> <p>1. The Ministry supports upgrading to secondary level treatment the Lions Gate wastewater treatment plant by 2020 and Iona Island wastewater treatment plant as soon as possible, but no later than 2030 and not contingent on the availability of senior government funding. The Ministry of Environment is not a funding agency. While I understand the cost of the upgrades is significant, they are necessary to meet current environmental standards. The Ministry will support Metro Vancouver pursuing senior government and alternative funding options, but cannot guarantee any provincial commitment in that regard, nor compromise the Ministry's mandate to protect the environment.</p>	<p>The Iona Island and Lions Gate wastewater treatment plant upgrades must proceed according to the Plan's timelines irrespective of any senior government cost sharing being in place.</p> <p>It will be necessary to continue to advocate for senior government funding in time for the construction phase of the projects when the most significant expenditures will be made.</p>
<p><i>Residential Water Conservation</i></p> <p>2. Member municipalities are strongly encouraged to business case and/or implement residential water metering programs and to consider municipal rebate programs for water efficient fixtures and appliances to reduce potable water use.</p>	<p>The 2011 updating of the Drinking Water Management Plan is proposed to contain actions which align with this condition and will encourage the re-evaluation of business cases that expand water metering.</p>
<p><i>Region-wide Water Conservation</i></p> <p>3. Metro Vancouver, in partnership with member municipalities, is encouraged to pursue a region-wide water conservation program targeting the industrial, commercial, institutional and agricultural sectors as part of its new Drinking Water Management Plan. Remaining municipalities in the region that have not implemented metering for these sectors are encouraged to do so.</p>	<p>Currently, most GVWD members have water metering requirements for certain classes of non-residential users but they will need to review the specific requirements based on this condition. The 2011 updating of the Drinking Water Management Plan is proposed to contain actions which align with this condition.</p>

Staff Summary of Implications of Ministerial Conditions

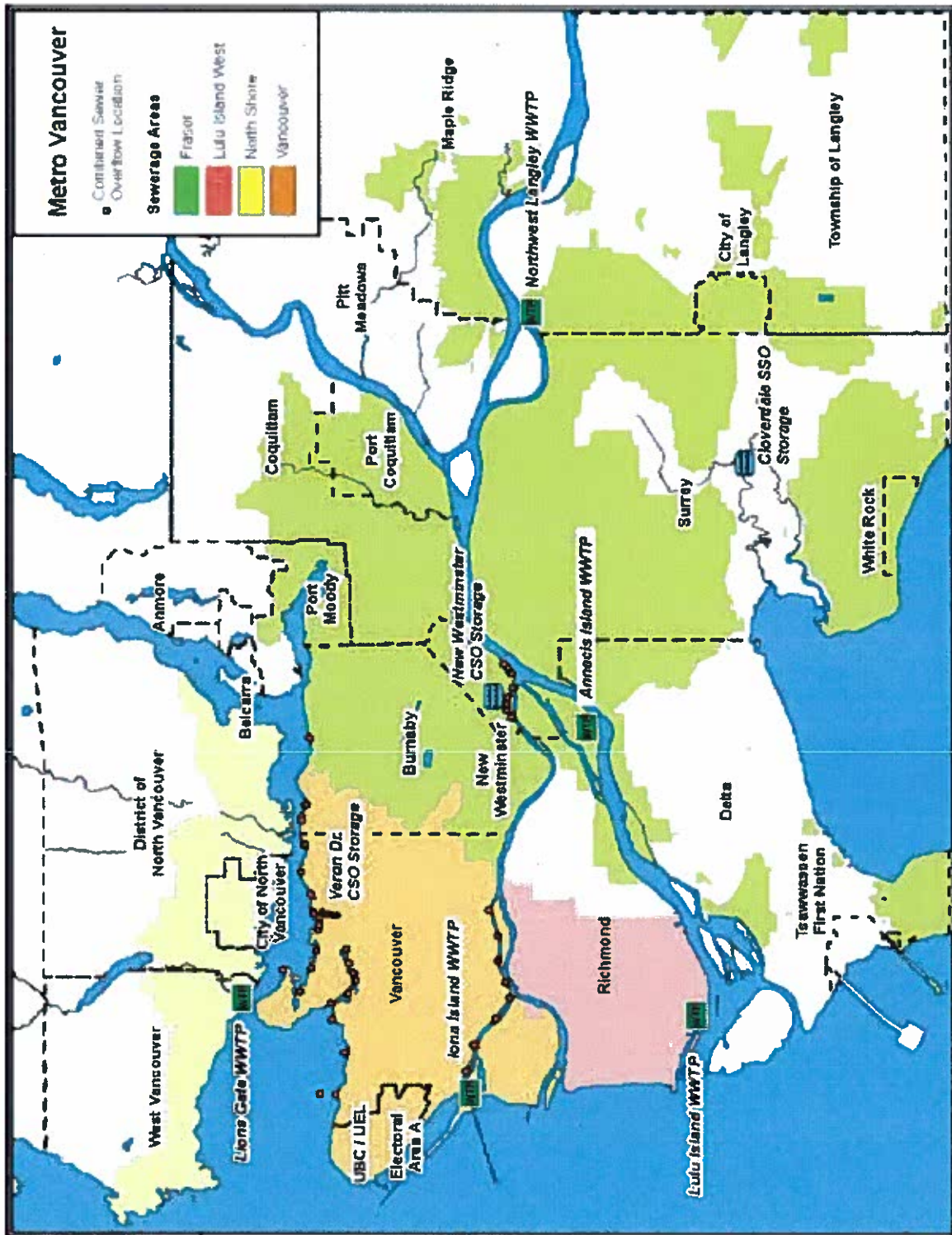
Approval Condition from the Minister of Environment <i>CSO and SSO Monitoring and Reporting</i>	Assessment of Implications to the Plan
<p>4. Metro Vancouver must use receiving environment and effluent monitoring data from combined sewer overflow (CSO) and sanitary sewer overflow (SSO) in the regional system to interpret the overall status of CSOs and SSOs. Metro Vancouver will continue the fate and effects studies on CSOs with the Clarke Drive location and other significant sites as determined by the Environmental [sic] Management [Monitoring] Committee. Metro Vancouver will establish similar studies representative of significant SSO locations, in particular the Cloverdale, Katzie and Lynn locations. The interpretation and assessment should demonstrate whether there has been any improvement or degradation along with any measures taken to address such discharges. Metro Vancouver will report out in the Quality Control Annual Report.</p>	<p>This condition requires the continuation of existing CSO and SSO monitoring work and the reassessing of some past monitoring sites. This Condition will require further monitoring and risk assessment specific to the Cloverdale, Katzie and Lynn SSO locations and the type of intermittent overflows that are occurring. The Plan actions include further capital works to mitigate the overflows at these locations.</p>
<p><i>Source Control Initiatives</i></p> <p>5. Metro Vancouver is encouraged to continue to build upon previous studies associated with studying endocrine-disrupting chemicals, persistent organic pollutants and other micro-contaminants found in wastewater by developing source control initiatives through education (for example, target outreach), regulation and inspection programs.</p>	<p>This condition is addressed in part through the continuation of collaborative research work with senior government and universities initiated under the 2002 Liquid Waste Management Plan. This condition encourages new source control initiatives that may be needed based on the findings from monitoring and research.</p>
<p><i>Receiving and Ambient Monitoring Programs</i></p> <p>6. Metro Vancouver will continue the receiving and ambient monitoring programs specified in the approved 2002 LWMP, including, but not limited to, recreational water quality (beach monitoring); monitoring near the outfalls for all five wastewater treatment plants, including the extensive deep sea monitoring near the Iona Island plant; and CSO effluent quality and monitoring of small urban streams relating to</p>	<p>This condition adds details to Actions 3.3.1 and 3.3.2 of the Plan by listing existing Metro Vancouver environmental monitoring programs identified in the previous liquid waste management plan.</p> <p>It requires revised and possibly expanded receiving and ambient monitoring programs regarding the outfalls for the Lulu Island</p>

Staff Summary of Implications of Ministerial Conditions

Approval Condition from the Minister of Environment impacts from urbanization and stormwater.	Assessment of Implications to the Plan and Northwest Langley WWTPs.
<p><i>Integrated Stormwater Management Plans (ISMPs) Performance</i></p> <p>7. Member municipalities will, with MV planning and coordination, and to the satisfaction of the Regional Manager, develop a coordinated program to monitor stormwater and assess and report the implementation and effectiveness of Integrated Storm Water Management Plans (ISMP). The program will use a weight-of-evidence performance measurement approach and will report out in the Biennial Report. The Regional Manager may extend the deadline for completion of ISMP by municipalities from 2014 to 2016 if satisfied that the assessment program could result in improvement of ISMP and protect stream health.</p>	<p>In addition, the monitoring of small urban streams related to municipal stormwater management will need to continue.</p> <p>Working with MoE's Regional Manager, Metro Vancouver and its members will build upon previous related work developed through the Stormwater Interagency Liaison Group. This condition requires a coordinated program to monitor and assess the effectiveness of municipal Integrated Stormwater Management Plans but the Ministry is also prepared to consider an extension of the municipal ISMP deadline from 2014 to 2016.</p>
<p><i>WWTP Flow Bypass Monitoring and Reporting</i></p> <p>8. Bypass conditions that occur at wastewater treatment plants will be reported out in the annual quality control report. The report on each activity will include a description of the event, cause, environmental effect and monitoring that occurred and any mitigation measures undertaken to prevent reoccurrence and remediate detrimental environment effect.</p>	<p>This condition is new but can be addressed under existing programs to establish monitoring and assessment associated with treatment plant bypasses.</p>
<p><i>Integrated Land Use Planning and Stormwater Management</i></p> <p>9. The ILWRMP has a goal of protecting public health and the environment. In keeping with this goal and to ensure alignment with other national, provincial and regional initiatives, Metro Vancouver and member municipalities are encouraged to:</p>	<p>This requirement is most pertinent to member municipalities. The Stormwater Interagency Liaison Group is the forum which is best suited to address stormwater issues; however, coordination with municipal planners through forums such as Metro Vancouver's Technical Advisory Committee will be important to</p>

Staff Summary of Implications of Ministerial Conditions

Approval Condition from the Minister of Environment	Assessment of Implications to the Plan
<ul style="list-style-type: none"> • Have local land use planning consider the direction provided by the ISMPs; • Consider how the degree, type and location of land development within a drainage can affect the long-term health of the watershed; • Consider how to protect the stream, including the riparian areas that exert an influence on the stream, from long-term cumulative impacts; and • Use scenarios and forecasting to systematically consider environmental consequences/benefits of different land use approaches prior to build-out (for example, Alternative Future type approaches). 	<p>successful integration.</p>
<p><i>Consultation with First Nations</i></p> <p>10. Metro Vancouver will continue to consult with First Nations during the implementation of the Plan – in particular, engaging, as appropriate, with First Nations likely to be impacted by the secondary upgrades.</p>	<p>Consultation with First Nations will continue as it relates to Plan implementation and the secondary treatment plant upgrades.</p>



Metro Vancouver Sewerage Areas and Existing Wastewater Treatment Plant Locations

