



CITY OF RICHMOND

REPORT TO COMMITTEE

TO: Public Works and Transportation Committee **DATE:** April 20, 2001
FROM: Jeff Day, P.Eng., Director, Engineering **FILE:** 0157-20-LWMP1
RE: Liquid Waste Management Plan – Stage 3 – Proposed GVRD Amendment

STAFF RECOMMENDATION

That Council adopt Addendum No. 1 to the "Greater Vancouver Regional District Liquid Waste Management Plan, February 2001".

Jeff Day, P.Eng.
Director, Engineering

Att. (1)

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CONCURRENCE OF GENERAL MANAGER

STAFF REPORT

ORIGIN

Subsequent to Council's March 26, 2001 resolution:

1. That the Waste Management Plan entitled "Greater Vancouver Regional District Liquid Waste Management Plan, February, 2001", be adopted; and
2. That the Greater Vancouver Regional District be authorized to submit the Liquid Waste Management Plan to the provincial Minister of Environment, Lands and Parks for approval pursuant to Section 18(1) of the British Columbia Waste Management Act.

The GVS & DD Board instructed the GVRD's Chief Administrative Officer to meet with the Regional Administrative Advisory Committee (RAAC) and the Regional Engineers Advisory Committee (REAC) to determine whether any refinements to the Liquid Waste Management Plan (LWMP) were advisable and to report back to the Board.

ANALYSIS

A special joint meeting of RAAC and REAC was held on March 16, 2001 where the LWMP, February 2001 was reviewed and considered and, following discussion, a consensus was reached that it was advisable to further revise the plan. The suggested revisions are documented in Addendum No. 1 to the plan (Attachment No. 1) and subsequently endorsed by the Board.

Addendum No. 1 primarily commits (through Commitment C8 in the LWMP) the GVRD to evaluate the feasibility of commencing partial biological (secondary) treatment as an alternative to enhanced primary treatment. In addition, it will also commit the GVRD to initiate the first phase of biological treatment at both the Iona Island and Lions Gate Treatment plants once growth and concentration levels approach the limits of the capability of those plants.


The amendment is believed to be necessary to satisfy Ministry of Environmental, Lands and Parks (MOELP) and Federal Fisheries long standing concerns regarding the LWMP.

FINANCIAL IMPACT

None at this time.

CONCLUSION

Addendum No. 1 has no significant impact to the overall principals of the LWMP, while providing a higher level of comfort to the MOELP and Federal Fisheries. Staff recommend that Council adopt Addendum No. 1.


Paul H. Lee, P.Eng.
Manager, Engineering Planning
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**Greater Vancouver Regional District
Liquid Waste Management Plan – February 2001**

Addendum No. 1

- 1) Commitment C8, *Upgrading of Iona Island and Lions Gate Treatment Plants*, is revised as follows (revision shown **bold**):

C8 Upgrading of Iona Island and Lions Gate Treatment Plants

The District will upgrade the Iona Island and Lions Gate treatment plants by adding facilities for chemical addition (enhanced primary treatment) if necessary to maintain the established base level of treatment as defined by Policy P4.

When considering such upgrades the District will also evaluate the feasibility of commencing partial biological treatment as an alternative to enhanced primary treatment.

The District will construct facilities for biological treatment in the following circumstances:

- *if necessary to address environmental concerns in accordance with Policy P2.*
- *to maintain effluent concentration and loading levels which are beyond the capability of enhanced primary treatment.*

In any event, the District will initiate the first phase of biological treatment at such time when growth and concentration and loading levels are approaching the limits of the capability of enhanced primary treatment to meet the requirements of Policy P4. This is anticipated to be reached between 2018 and 2028 at the Iona Island Treatment Plant and between 2030 and 2040 at the Lions Gate Treatment Plant. Growth and the concentration and loading levels will be monitored and these projected dates may be adjusted accordingly.

- 2) Municipal Commitment C15, *Combined Sewer Overflow Elimination*, is revised by adding the following:

To expedite the resolution of combined sewer overflow impacts, the cities of Vancouver, Burnaby, and New Westminster will cooperate with the District to facilitate the work identified in District Commitment C13, *Operational Improvements*.