

CITY OF BURNABY

ENVIRONMENT & WASTE MANAGEMENT COMMITTEE

HIS WORSHIP, THE MAYOR
AND COUNCILLORS

RE: SEDIMENTATION MANAGEMENT STRATEGY DEVELOPMENT
BRUNETTE BASIN/BURNABY LAKE

RECOMMENDATION:

- 1, THAT Council receive this report for information.

REPORT

The Environment & Waste Management Committee, at its meeting held on 2002 February 12, received and adopted the attached report outlining a proposed watershed sedimentation study for the Brunette Basin/Burnaby Lake. The study will identify key sources of sediments, quality of sediments, sediment conveyance and possible management options to reduce sedimentation in lakes and streams.

Respectfully submitted,

Councillor D. Johnston
Chair

Councillor C. Redman
Member

Councillor B. Der
Member

CC: -CITY MANAGER
-DIRECTOR ENGINEERING
-CITY CLERK
-DIRECTOR PLNG & BLDG

TO: CHAIRPERSON & MEMBERS
ENVIRONMENT & WASTE
MANAGEMENT COMMITTEE

DATE: 2002 01 30

FROM: DIRECTOR ENGINEERING

FILE: 40-05-07

SUBJECT: SEDIMENTATION MANAGEMENT STRATEGY DEVELOPMENT
BRUNETTE BASIN/BURNABY LAKE

PURPOSE: To inform the Committee and Council regarding a proposal to develop a watershed based sedimentation management strategy for the Brunette Basin/Burnaby Lake.

RECOMMENDATION:

1. **THAT** the Committee forward this report to Council for information.

R E P O R T

1.0 INTRODUCTION

At the regular Council meeting of 2002 January 14, Council received a staff report on the Burnaby Lake Dredging Program. Arising from the discussion of the report, the issue of sedimentation control in the watershed as part of the overall management strategy for the preservation of Burnaby Lake was identified for further consideration.

The purpose of this report is to inform the Committee and Council of a joint proposal by the City and the GVRD to develop a watershed based sedimentation management strategy for the Brunette Basin.

2.0 PROPOSED SEDIMENTATION MANAGEMENT PLAN

In 2000, Council adopted a watershed management plan for the Brunette Basin which outlined the vision, objectives, guiding principles and recommended improvements to protect the natural environment in the watershed through better management practices. The plan was a joint product of the GVRD, Vancouver, Burnaby, New Westminster, Coquitlam, Port Moody and watershed stakeholders. Following the adoption of the plan by all five municipalities with drainage area in the watershed, a watershed coordinating committee consisting of representatives from the GVRD, member municipalities, regulatory agencies and public stakeholders was established to coordinate storm water management initiatives

within each jurisdiction in the watershed and to provide possible opportunities for program partnerships and technology sharing.

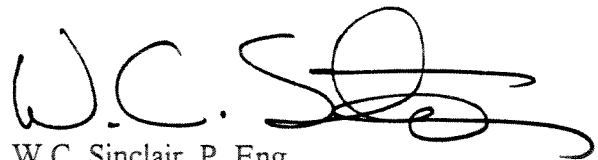
One of the watershed based initiatives that is being considered by the Brunette Watershed Coordinating Committee is to undertake a watershed based sedimentation study to identify key sources of sediments, quality of sediments, sediment conveyance and possible management options to reduce sedimentation in streams and lakes. The scope of the project will include sediment evaluation and monitoring for up to six streams in the watershed and it is anticipated that the study will take approximately two years to complete. A multi-stakeholder approach and partnership will be developed for the study and technical resources from UBC Institute for Resources and Environment and BCIT will be utilized for the study.

Terms of reference and work program for the project are being developed by the Brunette Watershed Coordinating Committee. It is expected that the data collection phase of the project will begin in May 2002. The study will examine the sediment transport issues in the watershed including their impact on streams and lakes (Burnaby Lake) and will identify possible mitigation strategies.

3.0 CONCLUSION

In the past few years, Council has advanced and adopted various principles of storm water management practices to protect the environment and to better manage urban runoff. As sedimentation control is a key component for an effective storm water management plan, a watershed based sedimentation control strategy should be developed to complement other storm water management and stream/lake enhancement programs in the City.

In consultation with the GVRD, provincial/federal regulatory agencies and UBC/BCIT through the Brunette Watershed Coordinating Committee, an opportunity was identified for a joint study to assess the sedimentation issue and to develop possible management options. The study will take approximately two years to complete and upon completion of the study, the findings and conclusions will be made available to all municipalities in the watershed for consideration and implementation. Detailed terms of reference and work plan for the study are being developed. Staff will update the Committee and Council on the study progress and key findings as appropriate.



W.C. Sinclair, P. Eng.
DIRECTOR ENGINEERING

LSC:dh

cc: City Manager
Director Planning and Building

