

TO: CITY MANAGER

July 6, 1999

FROM: DIRECTOR PLANNING AND BUILDING

OUR FILE: SUB 98-43

SUBJECT: Creek Assessment and Relocation / Rehabilitation Design;
City Lands, Marine Way and Greenall Avenue

PURPOSE: To obtain Council's authority to proceed with an assessment of a portion of Kaymar Creek and the preparation of a design for its relocation and rehabilitation onto City lands.

RECOMMENDATION:

1. **THAT** Council authorize staff to engage a consultant to undertake creek assessments and the preparation of a design for the relocation and rehabilitation of a portion of the west arm of Kaymar Creek as outlined in this report.

REPORT

1.0 BACKGROUND

The City is proposing to develop its lands at the northwest corner of Marine Way and Greenall Avenue for light industrial use (Figure 1 *attached*). As a component of the proposed servicing program, it is necessary to upgrade Greenall Avenue to an urban industrial standard which would require the enclosure or relocation of a drainage ditch on the west side of the road. This drainage ditch formerly comprised the west arm of Kaymar Creek and originates in the Kaymar Creek Ravine Park north of Marine Drive.

Council has also approved the relocation of the #116 bus route from Roseberry Avenue to Greenall Avenue once the road upgrading is complete.

2.0 EXISTING SITUATION

On 1999 April 29, Habitat Protection staff from the Ministry of Environment, Lands and Parks (MoELP) electrofished the subject channel from Marine Way upstream to Marine Drive. Numerous Male Three Spine Stickleback in spawning coloration were captured, as were 3 Brook Lamprey and 3 Cutthroat Trout. The capture of Cutthroat Trout in this section of the watercourse confirmed its classification as fish bearing or Class A downstream of the culvert under Marine Drive. This includes all open sections and enclosed or culverted sections downstream to its confluence with the main arm of Kaymar Creek.

This confirmed classification affects the development of the City lands at Marine Way and Greenall Avenue. MoELP has advised that it would be supportive of the relocation and rehabilitation of the watercourse adjacent the City lands, and the rehabilitation of the watercourse upstream and downstream of the property to allow more effective development of the properties and to rehabilitate compromised fish habitat. Otherwise the recommended riparian leave area on the property would be 30 meters from the top of the west bank of the watercourse. MoELP has also advised that the watercourse to the west of the property requires further investigation to determine its value to downstream fish habitat and requirements for protection or otherwise. This watercourse appears to be tributary to Boundary Creek which also should be further sampled and investigated for the presence of resident cutthroat populations prior to authorizing any new building adjacent to it.

3.0 PROPOSAL TO ENGAGE CONSULTANT

ECL Envirowest Consultants Limited (ECL) has previously undertaken a preliminary assessment of the subject section of Kaymar Creek this past winter as part of a larger project to map and classify Burnaby watercourses. Given ECL's previous work, and its demonstrated ability in this field, staff requested and have received a proposal to conduct an assessment of all three watercourses including water quality testing. Alternatives for creek realignment and rehabilitation will be outlined. Conceptual designs will be based on results of field and information review. Design drawings will be produced. Furthermore, a habitat balance sheet will be produced to examine the City's alternatives of providing compensation and/or relocating and rehabilitating Kaymar Creek. The projected cost of this work is \$5,764.00 including GST and PST. If further water sampling is required, invoices for laboratory costs will be billed directly to the City. \$750.00 is proposed to be included to cover these potential costs for a total budget allocation of \$6,514.00.

4.0 FINANCING

Sufficient Land Assembly Reserve Funds are available and the project is in accordance with the 1999 General Development component of the 1999 - 2003 Capital Program.



D.G. Stenson, Director
PLANNING AND BUILDING

PB\sla
Attachment

cc: Director Finance
Director Engineering

