

THE CORPORATION OF THE DISTRICT OF BURNABY

INTER-OFFICE COMMUNICATION

TO: Municipal Manager

DEPARTMENT:

DATE: 17 June, 1971

FROM: Municipal Engineer

DEPARTMENT:

OUR FILE #

SUBJECT: DISPOSAL OF DREDGE MATERIAL
BURNABY LAKE

YOUR FILE #

MUNICIPAL MANAGER'S
OFFICE

As you are aware, the dredging of Burnaby Lake, by disposal to spoil areas around the perimeter of the lake, has been continuing for a period of approximately six weeks, while the Greater Vancouver Sewerage and Drainage District trunk sewer has been blocked. The Greater Vancouver Sewer Board were successful in unplugging their trunk sewer on 8 June, 1971, and a decision must soon be made as to whether or not to return to the use of the sewer for the discharge of the dredge material. The Chief Engineer of the Greater Vancouver Sewerage and Drainage District has advised that he has not withdrawn the permission for the use of the sewer, however, the special grinder must be installed on the dredge, and a period of demonstration with the use of this grinder is required before we can use the sewer again. He has also advised that it would not be approved to use the sewer until 24 June, because of current salary negotiations with employees, which could result in crews not being available if the sewer became clogged again, as a result of discharging the dredge material thereto. At a meeting with the Canada Summer Games Committee, the Chief Engineer of the Greater Vancouver Sewer Board and Associated Engineering Services Ltd., on Friday, 4 June, it seemed apparent that the Summer Games Committee were not in agreement with further use of the sewer because of the possibility of blockage and the costs which could arise, should a blockage again occur. There is the inherent advantage in favour of using the sewer again, in order to establish the principle of discharging through the sewer with the Pollution Control Board for the future possibility of dredging further areas in the lake, and in order to minimize the extent and number of dredge islands around the perimeter of the lake.

We are attaching herewith a copy of a recommendation from Associated Engineering Services Ltd. that resumption of pumping into the sewer be approved as soon as clearance can be obtained from the Greater Vancouver Sewer Board. Their recommendation is based on the possibility of infill following dredging, the necessity of regular moving of the discharge line within the spoil areas, and the availability of sufficient spoil areas to handle all the remaining dredge material from the rowing course. We would point out, however, that there has been no assurance from anyone to the effect that even with the use of the special grinder, the sewer would not become blocked again, and in this event it is likely that there would be some difficulty with the Canada Summer Games Committee in recovering any further costs related to unplugging the sewer.

With due consideration to the recommendation of Associated Engineering Services Ltd., the fact that the Greater Vancouver Sewer Board have not withdrawn their approval to use the sewer, the scarcity of spoil areas which is being encountered around the perimeter of the lake, and the need of establishing the approval with the Pollution Control Board to use the sewer and the Fraser River for discharge of the material, and the possibility of some infilling occurring from the spoil areas into the dredged areas following dredging, we would recommend that the special grinder be installed and disposal of the spoil material to the Greater

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MANAGER'S REPORT

REF No. 23

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Vancouver Sewer Board Trunk be commenced as soon as physically possible, and in this connection we would suggest that because of the shortage of time available to the dead-line of the 15th July, the Greater Vancouver Sewer Board be asked special permission to commence using the sewer immediately, and not to wait until the 24th June dead-line. The one reservation in connection with this recommendation is that if the sewer trunk should again become plugged, it seems likely that the Corporation of Burnaby may have to pay the cost resulting from such blockage of the trunk sewer. I consider that such possible costs would be in the range of \$1,500 to \$12,000 but I also consider that the likelihood of a blockage occurring again, when compared with the initial instance, is remote.


MUNICIPAL ENGINEER

VK:cmg

Attch.

c.c. ()Municipal Solicitor
()Municipal Treasurer
()Parks Administrator

MANAGER'S REPORT

Vol. 23

AESL

ASSOCIATED ENGINEERING SERVICES LTD.

Consulting Engineers

1561 WEST 8TH AVENUE

VANCOUVER 9, B. C.

TELEPHONE 730-7301

TELEX 24 54577

June 16, 1971
File: 4004-00114

The Corporation of the District
of Burnaby,
4949 Canada Way,
BURNABY 2, B. C.

Attention: Mr. E. E. Olson, P. Eng.,
Municipal Engineer

Dear Sirs:

Re: Burnaby Lake Dredging Contract

We note that Council would like to have a recommendation from Associated Engineering Services Ltd. regarding resumption of discharge of the dredged material into the Greater Vancouver Sewerage & Drainage District sewer.

To summarize the circumstances to date, the contractor has been authorized to fabricate the cutting device which is proposed for installation on the dredge itself. He has in the interim period, been pumping into additionally designated "spoil" areas upon the lake, and will continue to do so until instructed otherwise.

We are currently awaiting clearance from the Sewer Board to install the cutting device preparatory to a demonstration before any decision can be made as to whether or not further use of the sewer will be permitted. The Pollution Control Branch would also want to observe the pumping demonstration before any change was made from pumping to the "spoil" areas.

Word from the Sewer Board is that they are currently engaged in the final stages of labour negotiations and have advised us that they cannot consider further use of the sewer until the current negotiations have been resolved, which could take until June 24. The reason for their concern is that if the sewer were to become clogged again it is possible that they would not have crews to clear it and this would result in a condition which they could not permit. The current schedule then is to continue pumping into the "spoil" areas until word is received from the Sewer Board that the cutting device can be installed on the dredge for the demonstration.

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EDMONTON

CALGARY

REGINA

SASKATOON

VANCOUVER

VICTORIA

NANAIMO

PRINCE GEORGE

MANAGER'S REPORT

WCA No. 213

ASSOCIATED ENGINEERING SERVICES LTD.

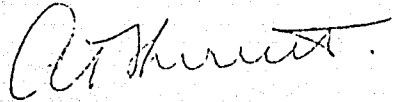
June 16, 1971
File: 4004-00114

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The Corporation of the District
of Burnaby

We are presently conducting special observations and tests in the areas which have been dredged to determine the extent or possibility of infill following the dredging, and some special techniques are being used to retain the material within the "spoil" areas. It is however, necessary to move the discharge line within the "spoil" areas fairly frequently to avoid buildup of the material above the water line and we are concerned about the availability of sufficient "spoil" area to handle all of the material. It is therefore our recommendation that resumption of pumping into the sewer be approved as soon as clearance can be obtained from the Sewer Board.

Yours truly,



A. T. Sherrett, P.Eng.,
Project Manager.

ATS:ww

MANAGER'S REPORT

ITEM NO. 23