

**REPORT TO CORE AREA LIQUID WASTE MANAGEMENT COMMITTEE
MEETING OF WEDNESDAY, 22 MARCH 2006**

SUBJECT **EAST COAST INTERCEPTOR – HUMBER AND RUTLAND PUMP STATIONS
OVERFLOW SCREENS**

PURPOSE

To seek approval for the installation of automatic screens on the overflows at Humber and Rutland pump stations in Oak Bay.

BACKGROUND

Chapter 16 of the approved Core Area Liquid Waste Management Plan (LWMP) contains a list of proposed improvements to the Capital Regional District's core area trunk sewerage system.

Item 3.3A of those improvements relates to installation of mechanical screens on the overflows from the Humber and Rutland pump stations in Oak Bay. The project is part of a commitment in the LWMP identified as "not complete" in the recent audit of the plan.

When the east coast interceptor (ECI) was constructed, the Uplands combined sewer area was connected to pump stations at Humber Road and Rutland Road (see attached sketch). Overflows are necessary at these locations, as the full flow from the Uplands combined sewer is not pumped into the ECI. The overflows currently have coarse, non-mechanized screens to remove larger objects from the sewage prior to ocean discharge.

Maintenance costs for the existing screens, including manual cleaning, will be reduced through use of automatic mechanical screens, while more efficient screening will result in fewer larger solids being discharged to Haro Strait. Screenings will be sent to the ECI for final removal at Clover Point pump station.

The estimated cost for these screens is \$500,000, with costs being borne by the District of Oak Bay.

ALTERNATIVES

1. Proceed with the project and capture screenings of 6mm and larger.
2. Not proceed, in which case Operations staff will continue to manually rake and remove screenings from the existing, inefficient static bar screens at the pump stations. Currently, during sewage overflows from the pump stations, deleterious objects bypass the screens and can find their way to local beaches.

FINANCIAL IMPLICATIONS

The annual debt-servicing cost of borrowing \$500,000 is estimated to be the equivalent of \$1.273 per \$100,000 taxable residential assessment for the participants. This matter has been discussed with Oak Bay administrative staff.

SUMMARY/CONCLUSIONS

Automatic screens are proposed to be installed on the overflows from the Humber and Rutland pump stations in Oak Bay, with the screenings being re-directed into the ECI trunk for eventual removal at Clover Point pump station and disposed at Hartland landfill.

RECOMMENDATIONS

That the Core Area Liquid Waste Management committee recommend to the Board that:

1. staff be authorized to design and tender the installation of mechanical screens at Humber and Rutland overflows on the east coast interceptor;
2. costs be borne by the District of Oak Bay; and
3. the attached Loan Authorization Bylaw No. 3332, in the amount of \$500,000, be presented to the Board for three readings and, subsequently, to the inspector of municipalities for approval prior to adoption by the Board.

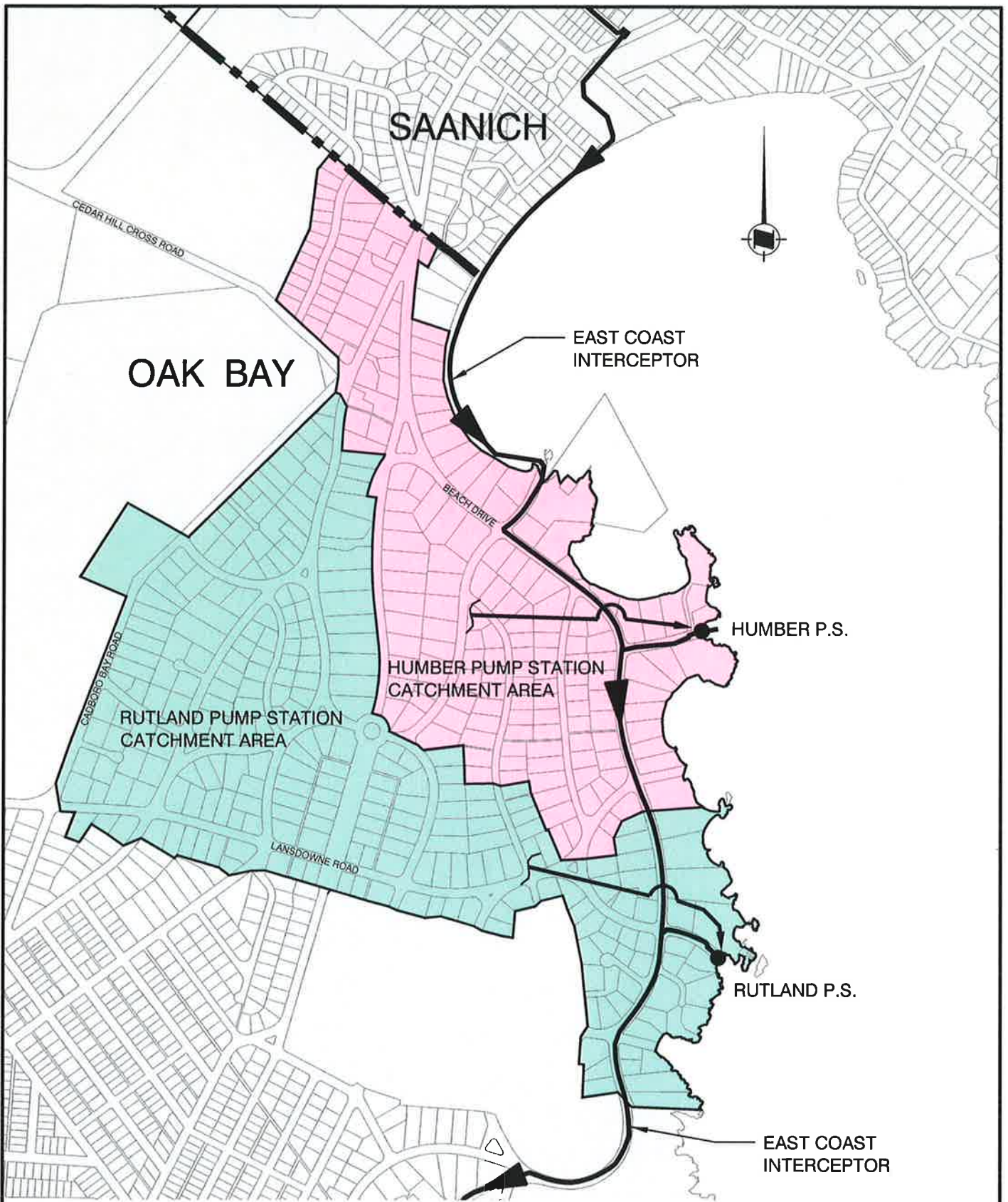
Seamus McDonnell, PEng
Manager, Engineering Services

Dwayne Kalynchuk, PEng
General Manager, Environmental Services
Concurrence

Kelly Daniels
CAO Concurrence

COMMENTS

JMcl:jt
Attachments: 2



**CAPITAL
REGIONAL
DISTRICT**

Environmental Services

**HUMBER AND RUTLAND PUMP STATIONS
CATCHMENT AREAS
OAK BAY**

DESIGNED M.C.	DRAWN M.J.P.	SCALE N.T.S.	CHECKED	APPROVED	DATE 03/03/06	DWG. NO. 7-S010-1	REV. 0	SHT 1	OF 1
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CAPITAL REGIONAL DISTRICT

BYLAW NO. 3332

**A BYLAW TO AUTHORIZE THE BORROWING OF \$500,000 FOR
THE ESTIMATED COST OF WORKS RELATING TO THE
HUMBER AND RUTLAND PUMP STATIONS OVERFLOW SCREENS AND RELATED
FACILITIES UPGRADE**

WHEREAS:

- A. By Supplementary Letters Patent, Division VII dated the 28th day of December, 1967, as amended by further Supplementary Letters Patent, the Capital Regional District was granted the function of acquisition, design, construction, operation, maintenance, renewal and administration of trunk sewers and sewage disposal facilities within all member municipalities of the Regional District, except the electoral areas of Juan de Fuca and Southern Gulf Islands;
- B. Under Bylaw No. 2312, "Liquid Waste Management Core Area and Western Communities Service Establishment Bylaw No. 1, 1995", and as amended by subsequent bylaw, the Capital Regional District converted the function of trunk sewers and sewage disposal facilities for the Core Area and Western Communities portion of the Regional District, under Sections 774.2(3) and 796 of the *Local Government Act*;
- C. It is deemed desirable to fund works relating to upgrading to the Humber and Rutland Pump Stations and related facilities in the East Coast Interceptor trunk sewer system;
- D. The works shall include the planning, study, public consultation, site selection, design, land and material acquisition, construction, supply and installation of all material, equipment and components and all construction necessary for the preparation and works relating to the upgrading of the Humber and Rutland Pump Stations and related facilities in the East Coast Interceptor trunk sewer system;
- E. The estimated cost of the facilities designed, constructed and installed as aforesaid including expenses incidental thereto is the sum of Five Hundred Thousand Dollars (\$500,000), which is the amount of debt intended to be created by this bylaw;
- F. The Capital Regional District Core Area Liquid Waste Management Plan, dated July 12, 2000, was approved by the Minister of Water, Land and Air Protection, March 26, 2003 in accordance with Section 24 (5) of the *Environmental Management Act*;
- G. Under Section 24 (7) of the *Environmental Management Act*, adoption of a bylaw in respect of an approved waste management plan does not require a petition, the assent of the electors or the approval of the electors referred to in the *Local Government Act* or *Community Charter*;

H. It is proposed that the financing of the said works to be acquired, designed and constructed is to be undertaken by the Municipal Finance Authority of British Columbia pursuant to proposed agreements between that Authority and the Capital Regional District.

NOW THEREFORE the Board of the Capital Regional District in open meeting assembled, enacts as follows:

1. The Board is hereby empowered and authorized to undertake and carry out or cause to be carried out the planning, study, public consultation, site selection, design, land and material acquisition, construction, supply and installation of all material, equipment and components, and all construction necessary for the sewerage facilities herein before described and to do all things necessary in connection therewith and without limiting the generality of the foregoing:
 - (a) to borrow upon the credit of the Capital Regional District a sum not exceeding Five Hundred Thousand Dollars (\$500,000); and
 - (b) to acquire all such real property, easements, rights-of-way, licenses, rights or authorities as may be requisite or desirable for or in connection with construction of the said facilities.
2. The maximum term for which debentures may be issued to secure the debt intended to be created by this bylaw is 15 years.
3. This bylaw may be cited as "Liquid Waste Management Core Area and Western Communities Service Loan Authorization Bylaw No. 1, 2006".

READ A FIRST TIME THIS	day of	2006
READ A SECOND TIME THIS	day of	2006
READ A THIRD TIME THIS	day of	2006
APPROVED BY THE INSPECTOR OF MUNICIPALITIES THIS	day of	2006
ADOPTED THIS	day of	2006

CHAIRPERSON

SECRETARY