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Capital Regional District

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February 15, 2017

File: 0620-20
Core Area Liquid Waste Management Plan
Amendments / Progress Reports to MOE

The Honourable Mary Polak
Minister of Environment
PO Box 9047 Stn Prov Govt
Room 247, Parliament Buildings
Victoria, BC V8W 9E2

Dear Minister Polak:

**RE: CAPITAL REGIONAL DISTRICT CORE AREA LIQUID WASTE MANAGEMENT PLAN
AMENDMENT NO. 12**

On behalf of the Capital Regional District (CRD), please find enclosed submission of Amendment No. 12 (Attachment 1) to the Core Area Liquid Waste Management Plan (CALWMP) for your approval. Amendment No. 12 builds on information submitted to the Ministry in Amendment No. 11, which was approved on September 30, 2016.

Previously, on August 25, 2010, the BC Ministry of Environment approved Amendment No. 8 of the Core Area Liquid Waste Management Plan (CALWMP), which included the District of Oak Bay's commitment to complete the separation of its Uplands combined sewer system by the end of 2015.

Since that time, the District of Oak Bay has worked to develop a plan for separating its combined sewer systems serving the Humber and Rutland catchment areas in the Uplands neighborhood that is supported by the community, Oak Bay Council and the CRD Board to meet its commitment under the CALWMP. The purpose of this Amendment No. 12 is to incorporate the necessary changes into the CALWMP by modifying Table 5.5 in Section 5 of Amendment No. 8, without impacting any other commitments already included in the CALWMP.

The District of Oak Bay proposes that its Prioritized Order of Oak Bay Overflow Reduction Plan (Table 5.5 in Amendment No. 8) be amended based on its publicly-supported September 2016 Uplands Combined Sewer Separation Plan, included in Amendment No. 12.

The District of Oak Bay plan is to eliminate combined sewer overflows at the Humber and Rutland pump stations in stages by separating the storm water flows from the sanitary sewer flows into dedicated storm drain and sanitary sewer conveyance pipelines. This will be accomplished by incrementally installing a new storm drain that will progressively reduce the combined flows in the sanitary sewer as road catch basins and dwelling roof and perimeter drain flows are diverted to the new storm drain conveyance pipeline. Stage 1 of the plan will be completed by 2027 with the separation of the combined sewer flows in the Humber catchment area, at an estimated cost of

\$5,285,000. Stage 2 will follow with the separation of the combined sewer flows in the Rutland catchment area by 2047 at an estimated cost of \$9,815,000.

PROPOSED AMENDMENT NO. 12

The purpose of Amendment No. 12 is to modify the CALWMP as summarized below:

Amendment to Table 5.5 Prioritized Order of Oak Bay Overflow Reduction Plan in Amendment No. 8

Delete Table 5.5 in Section 5 of Amendment No. 8 and replace with Table 5.5a revised as follows:

**Table 5.5a
 Prioritized Order of Oak Bay Overflow Reduction Plan**

Item No.	Work Name	Description	Estimated Year of Completion	Estimated Cost (\$2016) to Complete
1.	Uplands Sewer Separation Humber Catchment	Construction of new storm sewer	2027	\$5,285,000
2.	Uplands Sewer Separation Rutland Catchment	Construction of a new storm sewer	2047	\$9,815,000
3.	Oak Bay I&I Rehabilitation Projects	Continue with phased rehabilitation projects in various catchments	Annual	\$500,000
4.	CCTV Inspection	Video inspection of sewer mains	2025	\$80,000 annually
5.	Sewer System Maintenance	Maintenance to keep sewers clean and free of defects	Annual	\$240,000

The changes to Table 5.5 include:

- Item 1 has been separated into two items in Table 5.5a:
 - Item 1 – Uplands Sewer Separation – Humber Catchment
 - Item 2 – Uplands Sewer Separation – Rutland Catchment
- Item 2 has been expanded to include all Oak Bay I&I Rehabilitation Projects and included as Item 3 in Table 5.5a.
- Items 3 and 6 have been completed and deleted from Table 5.5a.
- Items 5, 7 and 8 have been consolidated into Item 5 - Sewer System Maintenance in Table 5.5a.

PUBLIC INVOLVEMENT AND ENGAGEMENT PROGRAM

1. General

The CRD continues to conduct a comprehensive public involvement and engagement program, including meetings with communities, community associations and open houses in the Core Area municipalities, to keep the public and stakeholders fully informed on all aspects of the CALWMP.

As required under the CALWMP, the proposed amendment was referred to the Technical and Community Advisory Committee for consideration and the members' comments were received by the Core Area Liquid Waste Management Committee.

2. District of Oak Bay Public Consultation and Engagement

The District of Oak Bay conducted extensive public consultation and engagement on the merits and considerations of each combined sewer separation option over a two-month period at the end of 2015. Public feedback was collected at several open houses and through an online survey, and presented to Council as part of a project update at a dedicated Committee of the Whole meeting on February 2, 2016.

The public challenged some of the pre-design study's assumptions and offered constructive insight into the technical options. In response to public feedback, and to help Council narrow down the six technical options, it was determined that more information was necessary to inform a decision. Council asked the project team to undertake additional analysis and gather more information over a period of six months, with updates to Council and the public at Council meetings and Committees of the Whole through June 2016. The project team responded to the following Council inquiries:

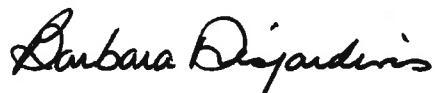
- condition of and risks to Uplands tree canopy
- environmental impact of combined sewer overflows
- alternative methods of storm water management
- power requirements for residential pumps
- impact of minimizing requirement for residential pumps in Oak Bay
- use of attenuation tanks as an alternative to sewer separation
- assumptions on geotechnical conditions and cost implications
- use of existing easements
- conditions under which owners must separate services on private property
- archaeological implications
- alternative construction method, specifically trenchless technologies
- power outages and the implications for private pumps
- overflow data for the Humber and Rutland outfalls; and
- staging of project construction

A comprehensive account of the public process carried out by the District of Oak Bay is provided by the *Public Engagement Overview* and the *Report on Survey Research* included as supporting documentation with the proposed Amendment No. 12.

The CRD Board approved the submission of Amendment No. 12 to the ministry for approval at its meeting of Wednesday December 14, 2016, based on the recommendations from the Core Area Liquid Waste Management Committee.

Should you or your ministry staff have any questions about the attached documents, please contact Larisa Hutcheson, General Manager, Parks & Environmental Services at 250.360.3085 or lhutcheson@crd.bc.ca.

Yours sincerely,



Barbara Desjardins
Chair
Capital Regional District Board

Attachment: Attachment 1 – Core Area Liquid Waste Management Plan Amendment No. 12

cc: CRD Board of Directors
Honourable Peter Fassbender, Minister of Community, Sport and Cultural Development
Robert Lapham, Chief Administrative Officer, CRD
Larisa Hutcheson, General Manager, Parks & Environmental Services, CRD