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March 17, 2016

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. 10**

On behalf of the Capital Regional District (CRD), please find enclosed submission of Amendment No. 10 (Appendix A) to the Core Area Liquid Waste Management Plan (CALWMP) for your conditional approval. Amendment No. 10 builds on information submitted to the ministry in Amendment No. 9, which was approved on July 3, 2014.

The purpose of Amendment No. 10 is to modify the CALWMP as summarized below:

- New Sewage Treatment Facilities Proposed at Both McLoughlin Point/Macaulay Plain and Clover Point*

After extensive evaluation of potential sites across the region, a two-plant option is being proposed for wastewater treatment as a base case: one located at McLoughlin Point/Macaulay Plain within the Township of Esquimalt and the other underground at Clover Point within the City of Victoria. Sufficient capacity to treat all of the sewage generated along the Northwest trunk will be built at McLoughlin Point/Macaulay Plain and the second plant would handle all of the sewage flows from the East Coast Interceptor trunk system at Clover Point. An environmental impact study for McLoughlin Point was previously completed and submitted as part of Amendment No. 8. A similar study will be completed for the expanded facility at Clover Point and potentially for Macaulay Plain.
- Project Concept Call*

The CRD plans to issue a call for submission of project concepts for wastewater treatment and biosolids processing, possibly in combination with solid waste streams, to achieve the goals of the Project Charter. The submissions would include sufficient detail to allow for meaningful evaluation of the project concepts against each other and against the base case, including details regarding sites, technology, a feasibility assessment, demonstration of compatibility with current infrastructure, compliance with provincial and federal requirements and demonstration of significant fiscal advantages and/or environmental advantages over the base case, including financial backing.

The Board has made integrated resource management a strategic priority. I am very pleased to see the Board advance this innovative approach, one that we are hopeful will not only achieve overall fiscal advantages but significant environmental benefit.

3. *Biosolids Processing to Remain at Hartland Landfill*

Hartland landfill continues to be the proposed site for biosolids processing. An environmental impact study has been previously completed and submitted for the Hartland North site, and will be updated once a defined approach for biosolids treatment is selected.

4. *Public Involvement and Engagement Program*

The CRD continues to conduct a comprehensive public involvement and engagement program, working directly with municipalities, 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.

Although a one- or two-plant solution including a site in Rock Bay was generally supported by the community, we also heard concerns expressed around this location in terms of additional costs and construction impacts for conveyancing to and from the Clover Point outfall. We also heard a desire to include other locations, and technologies, where those costs might be lower (closer proximity to the existing outfalls). This outcome of public consultation lead to the two-plant configuration reflected as the base case in the Plan amendment and the Project Concept Call outlined below.

The decision to revise the Core Area Liquid Waste Management Plan has provided an opportunity for the Region to bring the participating First Nations into the decision-making arena from the beginning of the process, rather than limiting the relationship to that of information sharing and consultation. The Songhees and Esquimalt Nations have shown leadership and good will throughout the process and have played an integral role in options development by being the first to offer technically feasible facility locations. Throughout the evaluation process, both Nations have joined the rest of the Core Area participants at the Committee table and have made this project a priority for their respective communities.

The CRD Board approved the submission of Amendment No. 10 to the Ministry for approval at its meeting of Wednesday March 9, 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

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

APPENDIX A

Core Area Liquid Waste Management Plan

Amendment No. 10

submitted March 2016

**CAPITAL REGIONAL DISTRICT
CORE AREA LIQUID WASTE MANAGEMENT PLAN**

**AMENDMENT NO. 10
(Type of Approval Requested: Conditional)**

**SECTION 6
(Modifies Section 6 in Amendment No. 8)**

PROPOSED SYSTEM CONFIGURATION AND BIOSOLIDS MANAGEMENT PLAN

(REPLACES CHAPTER 14 IN THE EXISTING PLAN)

GOAL

The goal of the proposed wastewater management system is to protect public health and the environment and to comply with provincial and federal regulations in a sustainable and cost effective manner.

COMMITMENTS

1. GENERAL

The Capital Regional District (CRD) and the participating municipalities commit to completing the required wastewater management program in a manner that will:

- a) Protect public health and the environment.
- b) Incorporate the Capital Region's climate action goals.
- c) Be sustainable and optimize the recovery and beneficial use of resources.
- d) Avail of opportunities to integrate the solid and liquid waste functions wherever a mutual benefit can be achieved.
- e) Provide appropriate wastewater treatment for the participating municipalities that will minimize the cost to taxpayers.
- f) Provide facilities that are compatible with neighbouring communities.
- g) Comply with the draft operational certificates, which will be amended as required.

2. WASTEWATER TREATMENT

The CRD and the participating municipalities commit to providing, by the end of 2020, wastewater treatment for the Core Area. The system base case, as indicated in Figure 6.1A and described below, will include the following major components:

- a) A secondary, advanced (tertiary) or equivalent to advanced (tertiary) wastewater treatment plant at Clover Point, servicing all flows currently directed to Clover Point, up to 2030;
- b) A secondary, advanced (tertiary) or equivalent to advanced (tertiary) wastewater treatment plant at McLoughlin Point or Macaulay Plain, servicing all flows currently directed to Macaulay Point outfall, up to 2030;
- c) Provision for a Westside wastewater treatment plant for future growth, at a location to be determined;

- d) Wet weather flow attenuation tanks and pump station at Arbutus Road in Saanich;
- f) Primary treatment of any discharges over four times average dry weather flow (ADWF) after 2030; and
- g) New grit removal and screening facilities at the existing Clover Point and Macaulay Point pump stations.

3. BIOSOLIDS PROCESSING

The CRD and the participating municipalities commit to processing the biosolids generated by the liquid treatment process in a manner that will be innovative, optimize opportunities for beneficial use while potentially integrating solid and liquid waste functions. The base case site for this treatment facility is the Hartland landfill.

4. PROJECT CONCEPT CALL

To compare against the base case as described above under items 2 and 3, the CRD intends to issue a call for project concepts to demonstrate solutions for:

- a) (i) Two advanced (tertiary) wastewater plants at either McLoughlin Point/Macaulay Plain and a second at Clover Point and provision for a third on the Westside to address future growth; and
- (ii) The treatment of biosolids at Hartland, possibly in combination with food scraps, municipal solid waste and wood waste; or
- b) Other feasible alternatives that demonstrate compatibility with current infrastructure, compliance with provincial and federal requirements and demonstration of significant fiscal advantages and/or environmental advantages and financial backing.

5. PROPOSED TREATMENT PLANT LOCATION

The proposed treatment plant will be located at the following lot legal descriptions:

McLoughlin Point

- Lots A-E, Plan 35322 – 337 Victoria View Road
- Lots 1 and 2, Plan VIP87823 – Bed of Victoria Harbour

Macaulay Plain – Vaughan Street and View Point Road

- PID: 017-115-501 Part of Lot 1, Section 11, Esquimalt District, Plan 41833, Except Part in Plan VIP78775 and VIP86676
- PID: 004-816-374 That Part of Lot 5 Block 16 Section 11 Esquimalt Plan VIP195-A Shown Outlined in Red on Plan 1870-R
- PID: 004-816-391 That Part of Lot 6, Block 16, Section 11, Esquimalt District Plan 196-A Shown Outlined in Red on Plan 1870-R
- PID: 004-816-366 Lot 4, Block 16, Section 11, Esquimalt District, Plan VIP195-A, Shown Outlined in Red on Plan 1870R
- PID: 025-629-859 Lot A of Part of the Bed of Victoria Harbour Esquimalt District Plan VIP75079

Clover Point

- PID: 013-026-020 1301 Dallas Road - Those parts of sections 15, 16, 33, 34, 51, and 82, Fairfield Farm Estate, Victoria City, Plan 13, as shown outlined in red on plan 5240S
- No PID: 1303 Dallas Road – Clover Point Pumping Station – in Road Right of Way
- No PID: Part of Dallas Road Right of Way
- No PID: Dallas Road – Part of the Bed of Ross Bay – Filled Foreshore

6. PUBLIC INVOLVEMENT AND ENGAGEMENT PROGRAM

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.

- Attachments:
- Attachment 1 – Proposed System Configuration – Figure 6.1A
 - Attachment 2 – Public Consultation Summary Report
 - Attachment 3(a)-(e) – Technical Memoranda 1-4 and Letter of March 4, 2016 from Urban Systems/Carollo Engineers