

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