

Dear Trustees Wolverton, Rockafella and Chair Rogers

We wish to pose to you 4 questions, all related to the section on Waste Water in the Water Management Plan (WMP) of April 2022 for Crystal Mountain Society (CMS) and respectfully request that at your earliest convenience, we receive your answers to these questions.

**i) Why was the April 2022 incarnation of the WMP issued and released for circulation when in its Section 8, Appendices, not one of the 14 titled URLs, links to presumably authoritative World Wide Web resources, is functional?** This deficiency seriously erodes trust in claims for section 6, Waste Water, that “CMSEC has received approvals from Island Health for sewerage system designs for both Area 1 and Area 2” citing evidence to be found in Appendices H & I, both inoperable.

**ii) Why has the waste water plan not been amended to reflect the revised water use estimates?** The sewerage specification for Area 1 provides for daily disposal of only 3,352 L/day when daily water demand in latest WMP is 4,801 L. Similarly for Area 2; the sewerage specification of only 284 L/day remains when daily water demand in latest WMP has more than doubled to 572 L/day. These errors raise serious questions about the quality of information filed with Island Health to support the claim that the organization has in fact reviewed and approved the referenced water needs analysis.

**iii) Why is there no contingency plan for Area 1 in the event of a power outage, float-switch failure or pump failure?** Waste water from the Caretakers' residence, Central Kitchen and Central Washroom will gravity-feed, via larger septic tanks, into the 300 IG (1,364 L) Pump Chamber for dispersal in the Septic Field. The capacity of the Pump Chamber, a small fraction of the WMP's Daily Design Flow (DDF), could have impactful consequence in the event, for example, of one of Galiano's not infrequent power outages.

**iv) Why is there no provision in Waste Water specifications for those days (CMS has requested 6 per year) when up to 60 people are in attendance on the Area 1 portion of the property?** WMP subsection 4.3.1 Maximum Daily Demand (MDD) has determined a per-person contribution to the MDD of 61.3 L. Water usage by the additional 25 Day Visitors, on such occasions, could thereby impose a not inconsequential burden of more than 1,500 L of waste water on that sewerage system.

Sincerely,

Pat & Ian Mayhill



