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Dan Passmore  
Columbia Shuswap Regional District  
555 Harbourfront Drive NE  
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March 5<sup>th</sup>, 2019

**RE: Comments regarding sewer capacity and cabin siding (Email dated February 20, 2019)**

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Dear Mr. Passmore,

Please accept this letter as a formal response to your questions via email on February 20, 2019. This letter will answer your questions regarding septic capacity, proposed siding on the new cabins, and the time of construction for the retail store.

The current septic system is a Type II treatment system by means of a Membrane Bio-Reactor (MBR) that was filed under the Sewerage System Regulation (SSR) in 2015. The allotted flowrate for that system is 22.5 m<sup>3</sup>/day. With flow data that is currently available to us, we are confident in saying that the current infrastructure at FINZ Resort is well under the allotted flowrate. The proposed addition of nine new duplex cabins will not exceed this threshold. Based on flow data from 2017 in the peak months (July and August), the average daily flowrate was 14.00 m<sup>3</sup>/day with a peak flow of 17.20 m<sup>3</sup>/day. Recently, there were 12 trailer sites removed. At 170 L/day/site, we can remove 2 m<sup>3</sup>/day from the daily contribution. With a remaining average daily flow of 10.5 m<sup>3</sup>/day, we can divide that amongst 18 units to leave 583 L/day per unit. This is equivalent to 194 L/day per person with 3 people to a home. The allotted amount for a cabin, as per the SSR is 225 L/day/person. To keep within our current filing conditions, we propose phasing the development by constructing the lower bench with 10 units first. Adding these 10 units will increase daily flow to 18.75 m<sup>3</sup>/day (calculated). Once these units are contributing to the daily sewerage flowrate, we can use the data collected to verify if we can finish the other eight units without going over the daily limit of 22.5 m<sup>3</sup>/day. Based on experience, the SSR is often over conservative and we are confident that all 18 units can be accommodated by the current system.

To answer your questions regarding the cabin finishing; the materials will be fir timber and Hardy Board with asphalt shingles.

The retail store building/office was constructed (prefabricated) in 2011/12.

Please let me know what your thoughts are, and if you have any questions or comments you can send them to [mike@franklinengineering.ca](mailto:mike@franklinengineering.ca). Thank you.

Prepared by,



Mike Casol

Reviewed by,



Jayme Franklin, P.Eng