



**OLAND
ENGINEERING
LIMITED**

To: Regional District of Okanagan Similkameen
Planning Department

June 20, 2024

cc: Baljit Arneson & Anoop Virk, Property Owners

Re: Sewerage for Lot 8, Plan KAP 13417, Indian Rock Road, Naramata

Dear Sir/Madam

Oland Engineering was consulted by the homeowners to design, certify the construction and commission the sewerage system for the said property.

The sewerage system was originally designed for a maximum daily flow of 2,300 L/day based on 4 bedrooms plus a 1-bedroom suite. The owners plan on adding an additional bedroom, making it a 5-bedroom home plus a suite for a total design flow of 2,600 L/day.

A new design was submitted to Interior Health Authority that included an upgrade to the treatment system that will allow an increased hydraulic loading rate of 2600 L/day to the dispersal field.

The treatment system upgrade has been completed and the system is now approved for a 5-bedroom home plus a 1-bedroom suite.

The daily sewage design flows used for a single-family home and/or suite, under the BC standard of practice, is a maximum daily flow, estimated to be reached within any 30 day period. The estimated average daily flow is approximately 50% of the maximum daily flow. Using estimated maximum flows adds a very conservative design factor to the system.

If there are any questions regarding the above, please contact the undersigned.

C. Jeffrey Oland, P.Eng.

23-017