

26/05/2022

Robert Wallace  
Karaka Village Infrastructure Limited  
By Email: rwallace@wallacegroup.co.nz

Dear Robert,

**Response to Question 6 - EPA request for information from Karaka North Village Limited in relation to Karaka North Village application under COVID-19 Recovery (Fast-track Consenting) Act 2020**

*6. Will the wastewater and stormwater management systems for the site be constructed in their entirety prior to the completion of stage 1?*

Subject to the completion of associated infrastructure within the wider development supporting the wastewater treatment plant, APEX confirm that the wastewater system will be able to receive raw sewage prior to the issue of the first 224C certificate. Whilst the plant will not be complete in its entirety, the inlet screens, biological reactor tanks, irrigation field (south of road 7), rapid infiltration trench (by others) and all associated equipment will be electrically and mechanical commissioned. This will ensure the plant is able to manage the incoming flows expected to be very low for the first 6-12 months. The balance of the plant will be completed in the ensuing months as flow to the plant starts increasing. This staging is associated with building the biological process.

For clarity, APEX further advise subject to the same condition as above, the water treatment plant will be fully operational prior to the issue of the first 224C certificate. This excludes the 3,000,000litre potable water reservoir which will not be provided at this time. The minimum operational volume of water required within this reservoir far exceeds the potable water demand of the development at this early stage leading to large retention times within the reservoir. Large retention times can lead to a drop in the concentration of disinfection chemicals to levels below those specified within the Drinking Water Standards for New Zealand. During this period temporary storage tanks will be installed to service the early stages of the development until it can support the use of the proposed 3,000,000litre reservoir. Based on water consumption and dwelling occupation figures provided in the Auckland Council Code of Practice for Land Development, it is expected that the permanent reservoir will be suitable for use once the first 200 dwellings are occupied.

Regards

**JACK TAYLOR**  
**PROJECT MANAGER**