

## Assessment against the National Policy Statement 2020

Ashley Gould is proposing to install a Wright Protec at 92 Brosnan Road, Levels.

The properties in this immediate area are all on the flat landscape, however, Timaru itself has been built on rolling hills created by the extinct Mt Horrible. This area is warm-hot in summer and cold in Winter. Rain is evenly distributed throughout the year.

Wright Tanks has tanks operating in and around this area.



*Canterbury maps: Gould's' site with wells & discharge in the area.*

Te Mana o te wai has a focus on firstly the fresh water and the health of the native species that either live in or around the water sources. To keep the water ways in a natural state before human contact, to ensure that ours and future generations can enjoy and harvest responsibly from the water sources. The water bodies in the area are drains and water races. There is a drain that goes through site and there are swales down Brosnan and Falvey Road. The Pacific Ocean is 4.5km East of Gould's site.

The closest active bore is J38/0936 140m North- There is no bore log available, this well is used for irrigation with a depth of 8m. The nearest active down-gradient well is J38/0660, this is used for domestic supply.

Piezometric contours show groundwater flow North West to South East.

In conclusion Wright Tanks has assessed the risk factors to the local freshwater and the downstream properties as minimal risk to the above risk factors. Wright Tanks has considered the environment when designing this system. The system should be serviced regularly to ensure the tank is working to its full potential.

The health and wellbeing of the residents of Levels, have been a consideration. Levels is an area that has historically fully occupied by sheep runs, it now consists of lifestyle blocks where families can graze farm animals (small number of). As this area is based on agriculture- mainly sheep and cattle farming, dairying and cropping.

The nearest water quality well J37/0019 is 494m NE, this has had its last sample in July 2019, this had a nitrate nitrogen reading 7.800mg/L. The closest down-gradient water quality is J38/02055 1315m SE with the recent sampling in October 2021, this shows nitrate nitrogen at 4.000 mg/L and E. coli at <1MPN/100mL. Wright tanks can find no reason that with the addition of this new system that would make more than a minimal impact on the environment.



### *Topography out Levels.*

The third part of the Hierarchy of obligations in the Te Mana o te wai, is the ability of people and the community to provide for their social, economic and cultural wellbeing now and in the future. Due to the size of the sections down Brosnan Road there is space for each occupant to express themselves in whatever way they see fit with minimal to no negative effects from the treatment plant and discharge.

Wright Tanks concludes that the tank and the discharge field will not disrupt the client or the residents from achieving this but ensuring the system has been installed as per the national standards and is serviced twice a year.

Policy 2- Tangata whenua are actively involved in freshwater management (including decision making processes), and the Maori freshwater values are identified and provided for.

The discharge will be contained on the applicant's property, all wells will be 50m away and the swale drain a minimum of 20m from the discharge.

Policy 9-The habitats of indigenous freshwater species are protected.

Policy 15- Communities are enabled to provide for their social, economic and cultural wellbeing in a way that is consistent with this National Policy Statement.

This discharge is in a reasonably sized property, where the discharge in the soil will have time to be taken up by the plants in the area. Soil is a very good protector of groundwater against entry of pathogens. All pathogens will be fully treated before discharge can reach groundwater.