



Figure 2-3: Wastewater Flow Projections - Winter

2.4 Discharge Permit 202636

The existing discharge permit allows SDC to discharge an average dry weather flow discharge of up to 2500m³/day into the Upukerora River and higher flows during wet weather. The discharge permit requires SDC to monitor the parameters set out in Table 2-1 below.

Table 2-1: Parameters to be tested

Discharge	Receiving Waters	Lake Te Anau
Temperature	Temperature	Temperature
Electrical Conductivity	Electrical Conductivity	<i>E-Coli</i>
BOD ₅	pH	Total Ammoniacal Nitrogen
Total Suspended Solids	Dissolved Oxygen	Nitrate Nitrogen
<i>E-Coli</i>	Black Disk/Clarity Tube	Dissolved Reactive Phosphorous
Total Ammoniacal Nitrogen	<i>E-Coli</i>	
Total Nitrogen	Total Ammoniacal Nitrogen	
Nitrate Nitrogen	Nitrate Nitrogen	
Total Phosphorous	Total Phosphorous	
	Dissolved Reactive Phosphorous	
	Periphyton Cover	

In addition Condition 8(c) requires SDC to provide a report to Environment Southland without undue delay when the following trigger values are exceeded:

- Soluble inorganic nitrogen concentrations in excess of 0.295g/m³, or dissolved reactive phosphorous concentrations in excess of 0.026g/m³, in the Upukerora River outside the zone of reasonable mixing, and/or
- Soluble inorganic nitrogen concentrations in excess of 0.050g/m³, or dissolved reactive phosphorous concentrations in excess of 0.006g/m³, in Lake Te Anau.