

Te Rūnanga o Ngāi Tahu Polyculture Aquafarms: Appendix 3

Key environmental parameters for salmon farming

Factor	Southland Aquaculture Phase 2 Report		Foveaux Strait ¹
Temperature	Minimum	>6°C	7.8°C
	Maximum	<20°C	15.6°C
	Optimal	17°C	
Salinity		10 – 36 ppt	34.7 – 34.8 ppt
Dissolved Oxygen	Minimum	>5 mg/litre	8 – 8.5 mg/litre
Current speeds	Average lowest	5 – 7 cm/sec	
	Average		38 – 44 cm/s
	Highest maximum	140 cm/sec	>90 cm/s
Depth	Minimum	20m	20 – 25m (inshore)
	Maximum	None	100m
Waves	Maximum	<3m	3m

¹ Campos C, Smeaton M, Bennett H, Mackenzie L, Scheel M, Vennell R, Newcombe E, Knight, B 2020, Assessment of water column effects associated with farming salmon offshore of northern Stewart Island/ Rakiura. Prepared for Ngāi Tahu Seafood Resources. Cawthron Report No. 3326. 106p. plus appendices.