

## Awakino River & Tasman - Quarterly River Monitoring

Sample Collection Day: 11<sup>th</sup> September 2023

Overall, water quality at Mangaorongo stream was good on 11<sup>th</sup> September, except for a slightly elevated concentration of Dissolved Inorganic Nitrogen.

**E. coli** concentrations were low (120). **Nitrate** concentrations were well below toxicity levels (0.61 mg/L). **Ammonia** concentrations were exceptionally low (< 0.005 mg/L). **Dissolved Inorganic Nitrogen** (DIN) exceeding 0.5 mg/L, potentially impacting the health of the river<sup>1</sup>. **Dissolved reactive phosphorus** was low ( $\geq$  0.008 mg/L). **Water clarity** was excellent (1.55 m), relative to the national bottom line (0.61 m).

AWAKINO RIVER & TASMAN Sample Date: 11-Sep-23 Lab: Analytica	Human Contact		Ecosystem Health				
	E. coli/100 ml	Nitrates Toxicity (mg N/L)	Ammonia Toxicity (mg N/L)	Water Quality		Sediment	
				Dissolved Inorganic Nitrogen (mg N/L) <sup>2</sup>	Dissolved Reactive Phosphorus (mg/L)	Water Clarity (m) <sup>1</sup>	National Bottom Line
3-Mangaorongo Stm	120	0.61	<0.005	0.61	0.008	1.55	<0.61

<sup>1</sup>Water clarity has been converted from measured turbidity using the formular  $\ln(\text{CLAR}) = 1.21 - 0.72 \ln(\text{TURB})$  (Franklin, Booker & Stoffels, 2020).

<sup>2</sup>Guideline values to assess ecological impacts of nitrogen on freshwater life. Attribute band limits are from the NPS-FM consultation draft (2019)

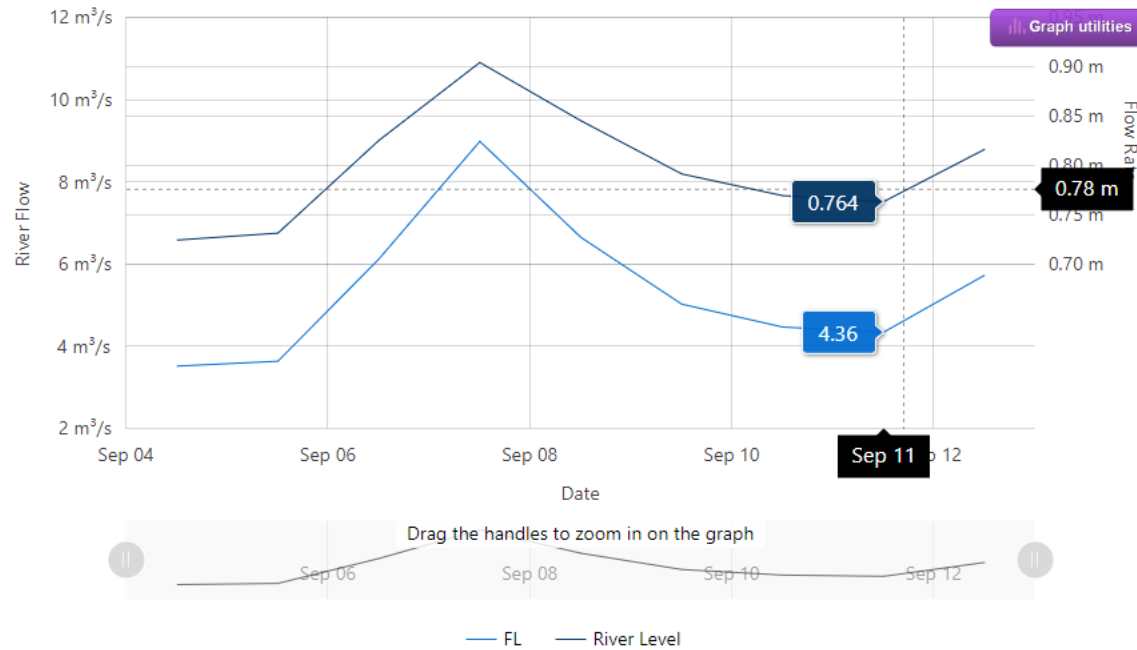
Attribute Band	Ecosystem Health	Human Contact
A		
B		
C		
D		
E	Human Contact only	

<sup>1</sup> Ecological impacts, including problematic growth of algae and/or aquatic plants and loss of sensitive aquatic species are likely when the combined concentration of nitrate and ammonia (i.e. DIN) regularly exceed 0.5 mg/L.

## Awakino River - Rauroa Farm Bridge - River level

Scale:

Logarithmic Scale  Display River Level



Data source: Waikato Regional Council [envirohub website](#) for environmental data.