



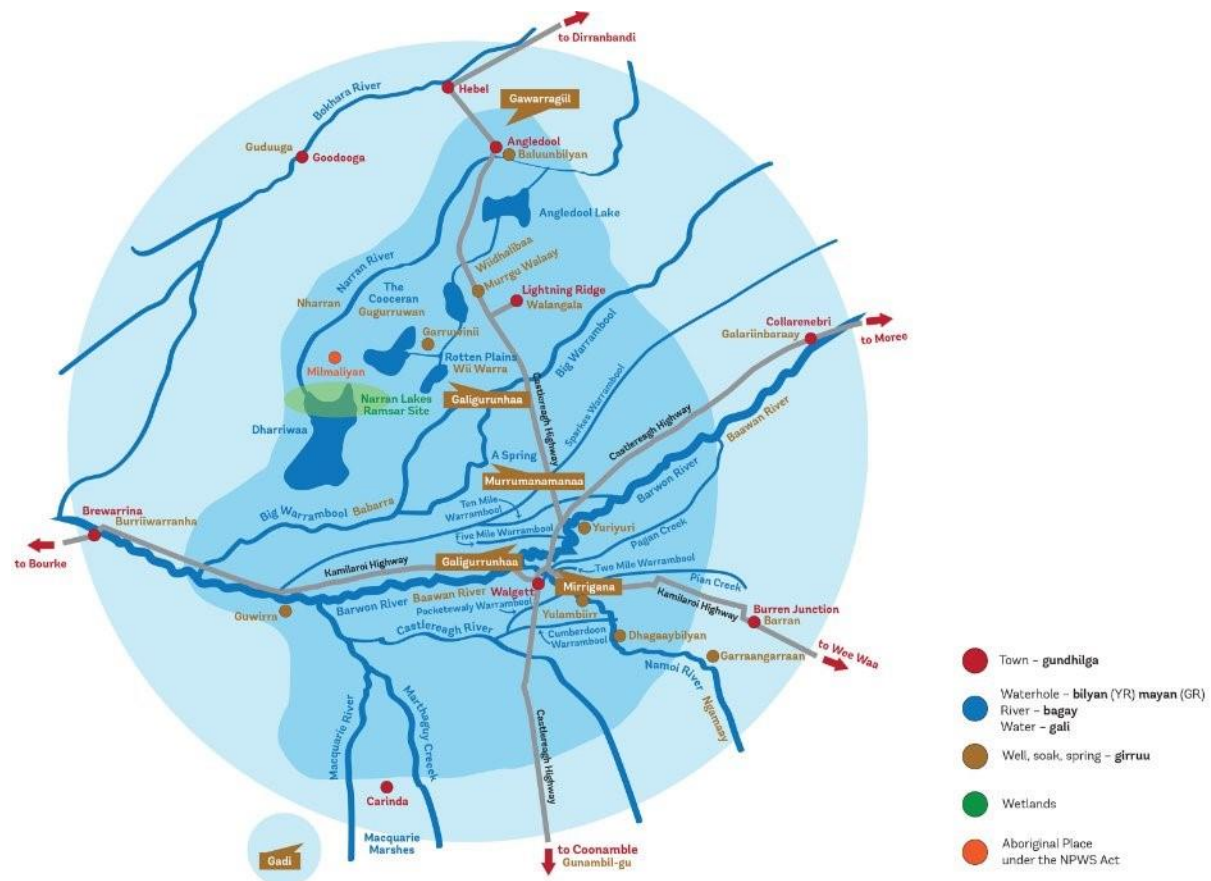
Weekly Water Monitoring Report

22nd August 2024

Introduction

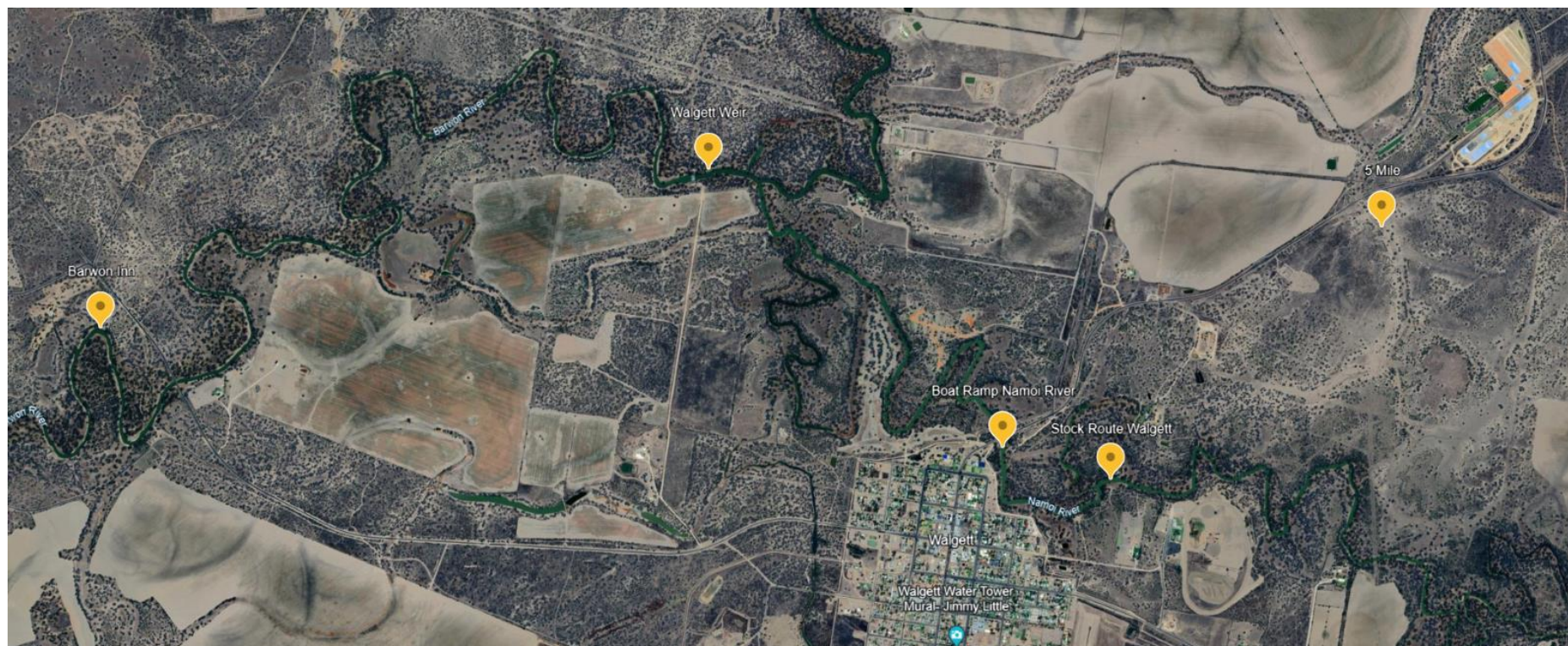
This data was collected on Thursday 22nd August between 10am and 1pm on the Ngamaay (Namoi) and Baawan (Barwon) River.

The Dharriwaa Elders Group River Rangers are conducting weekly water quality testing, measuring a range of factors that affect the quality of the river water. Different results affect the health of native animals and plants, and the health of the people that rely on the river for food and water.

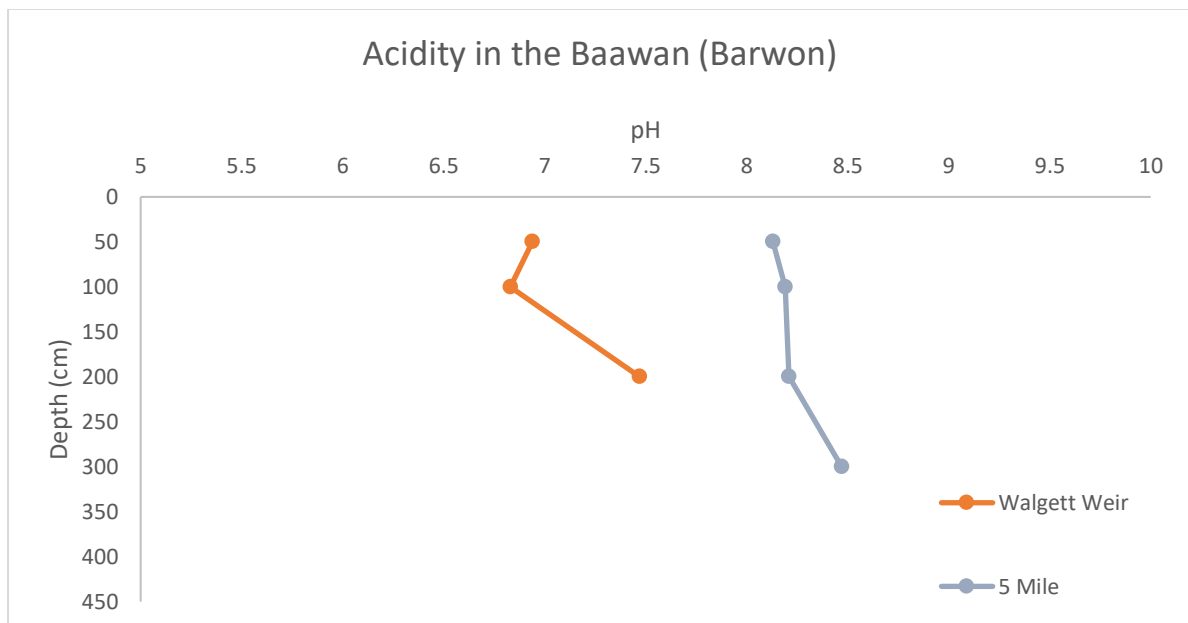
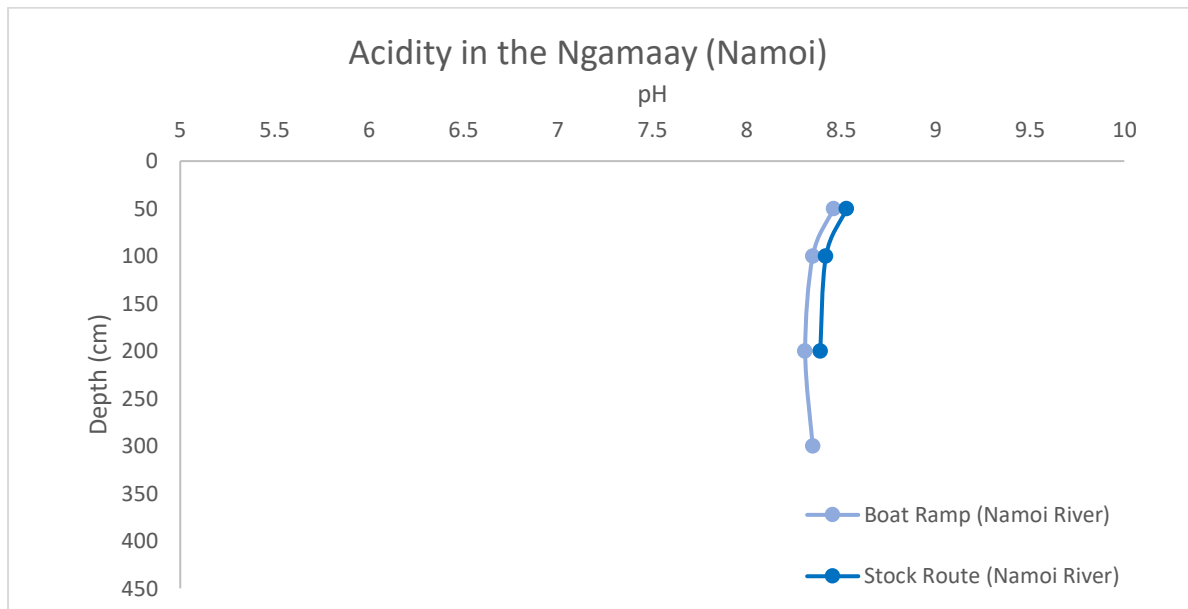


(Picture: Dharriwaa Elders Group area of interest)

Picture: Map of the Baawan (Barwon) River and Ngamaay (Namoi) River where the DEG River Rangers do their water quality monitoring.



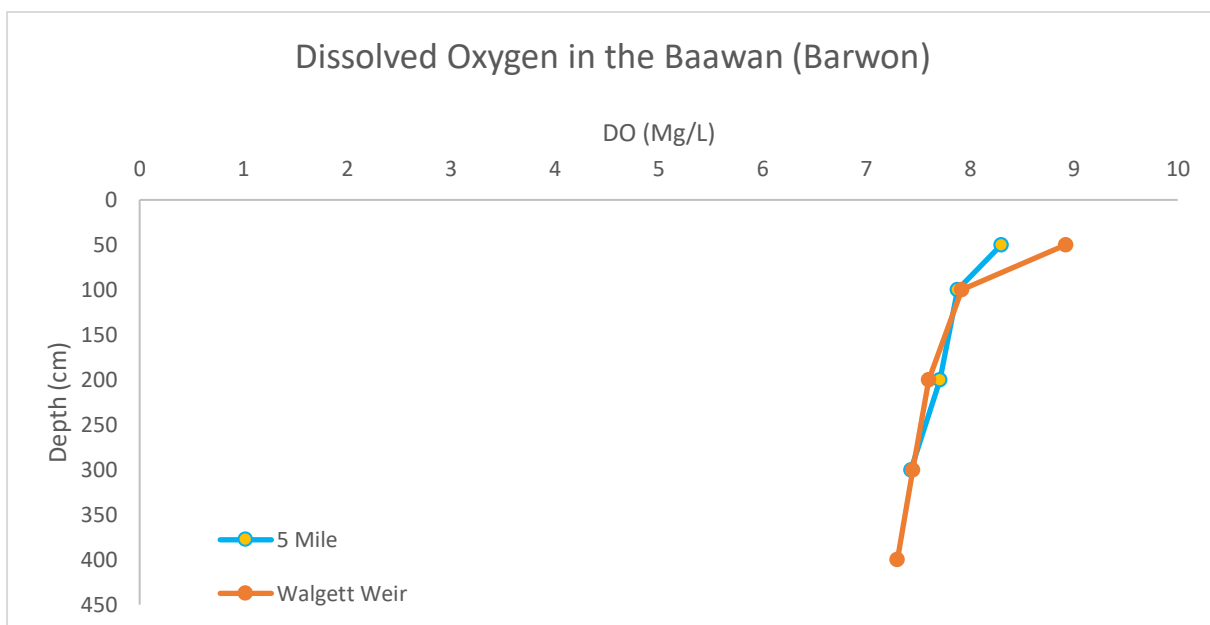
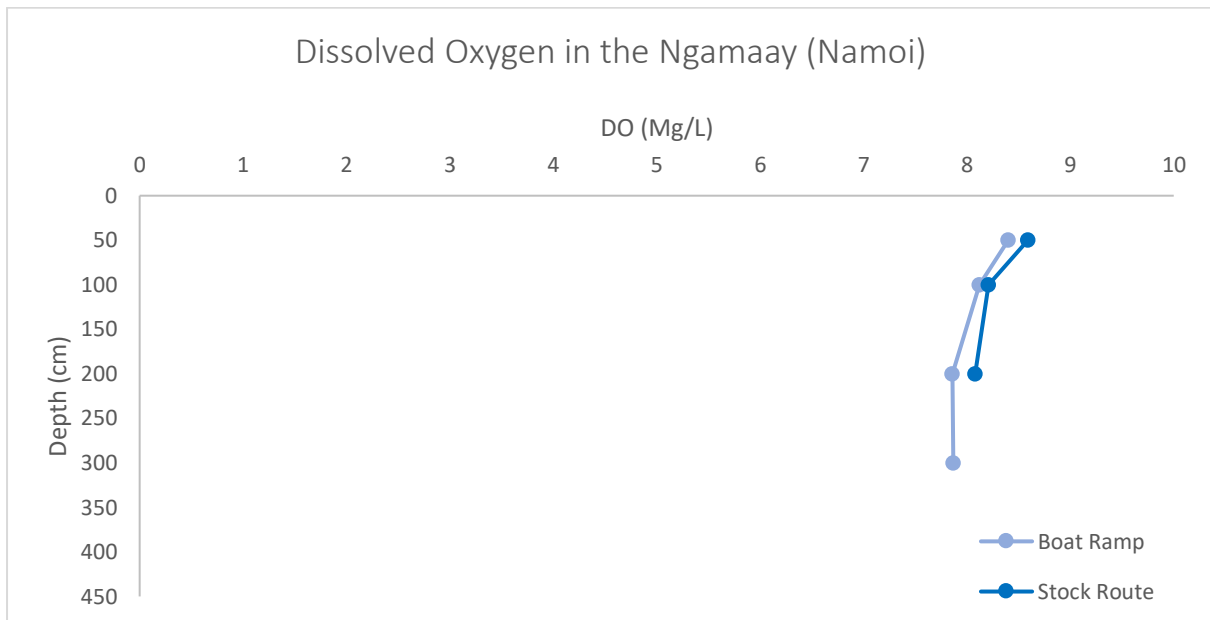
Acidity in the Ngamaay and Baawan Rivers



The first pH reading at the Boat Ramp on the Ngamaay River is outside the healthy range all other readings at the Boat Ramp is within the healthy range. The first reading at the Stock Route (Ngamaay River) is outside the healthy range, the last two readings are within the healthy range. The Walgett Weir and 5 Mile (Baawan River) are all within the healthy range. The maximum reading is 8.53 and the minimum reading is 6.83.

Healthy range: 6.5 - 8.5 pH

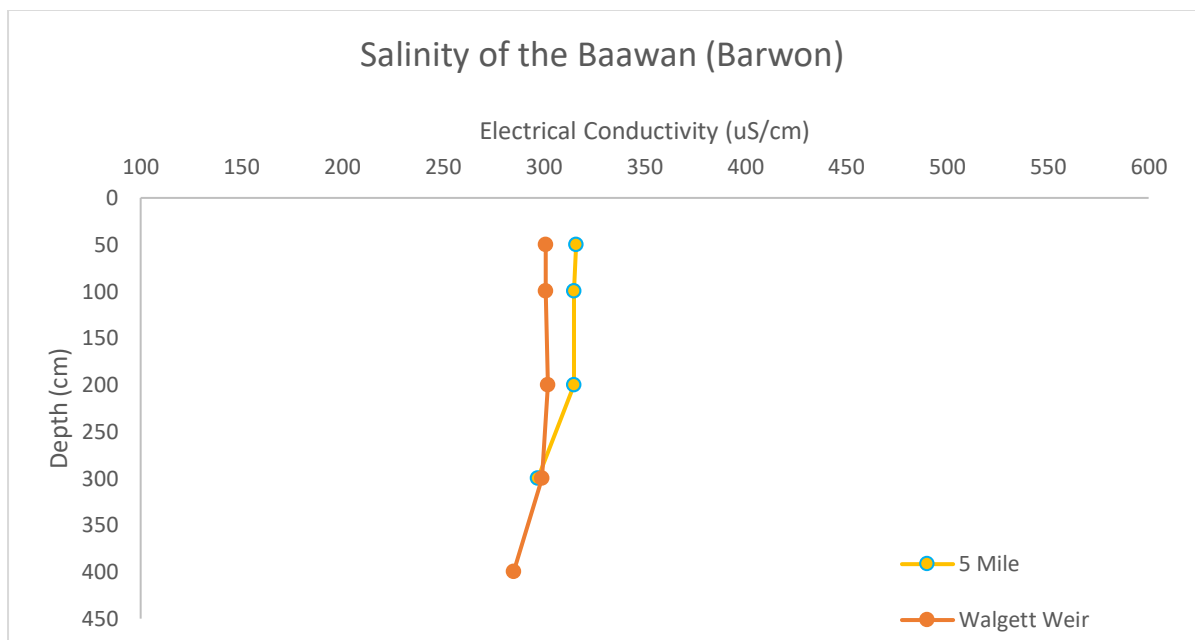
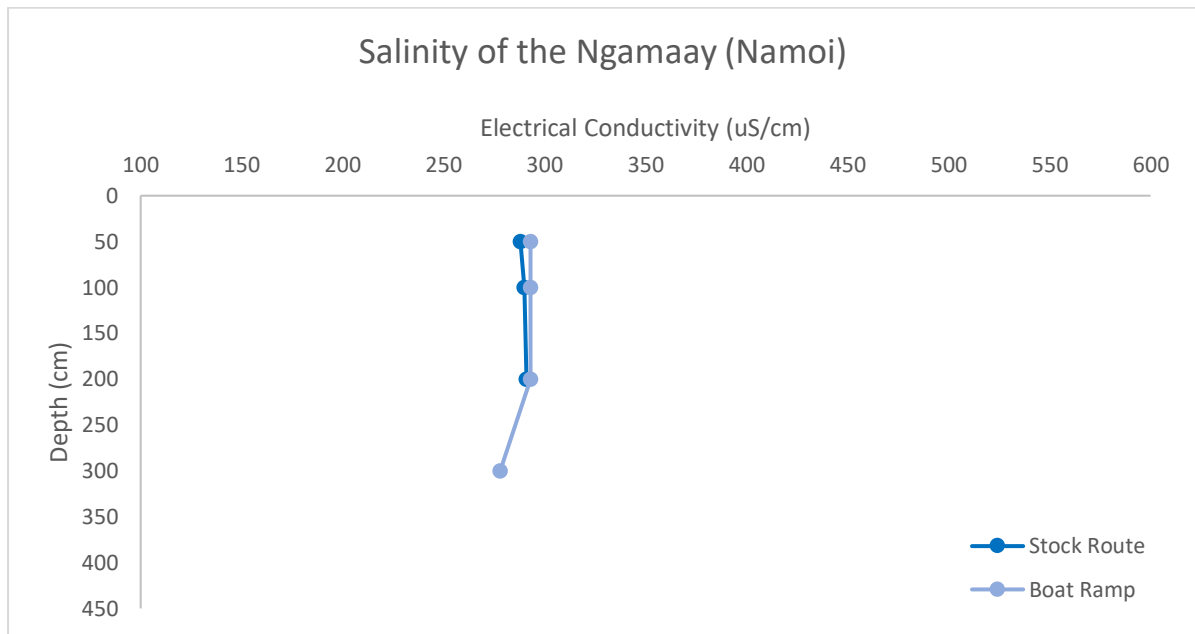
Dissolved Oxygen in the Ngamaay and Baawan Rivers



The dissolved oxygen readings at the Stock Route on the Ngamaay River is outside the healthy range. The first two readings at the Boat Ramp (Ngamaay River) is outside the healthy range, the last two readings are within the healthy range. The first reading at the 5 Mile (Baawan River) is outside the healthy range, the last three readings are within the healthy range. The first reading at the Walgett Weir (Baawan River) is outside the healthy range, the last four readings are within the healthy range. The maximum reading is 8.92 and the minimum reading is 7.30.

Healthy Range: 6 - 8 (Mg/L)

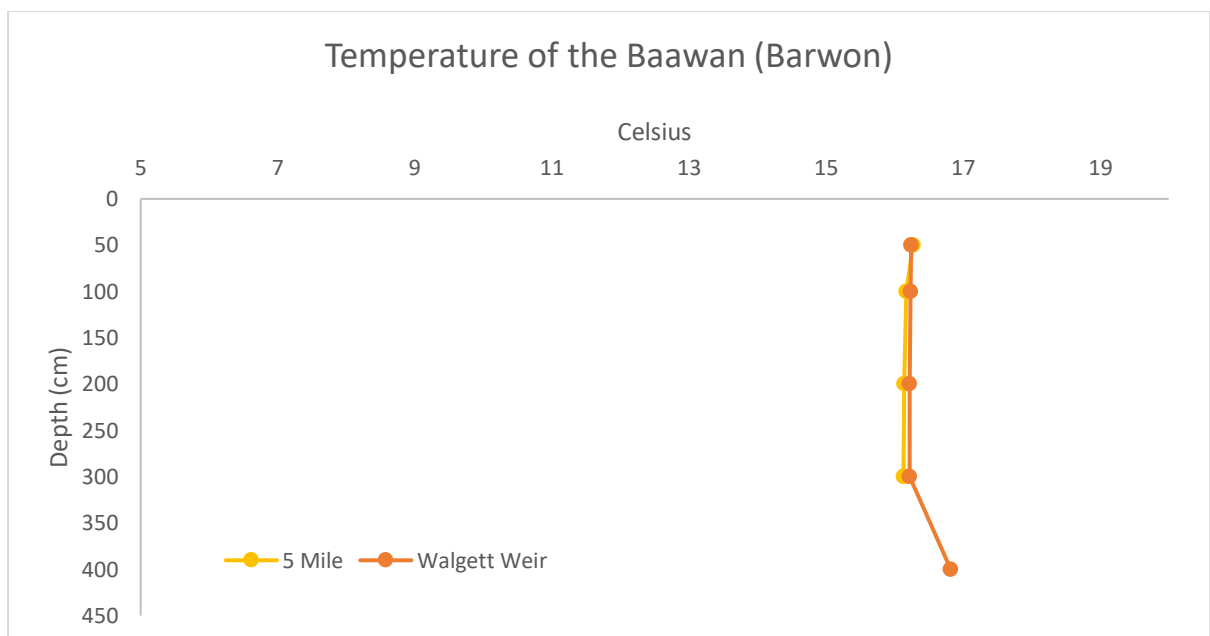
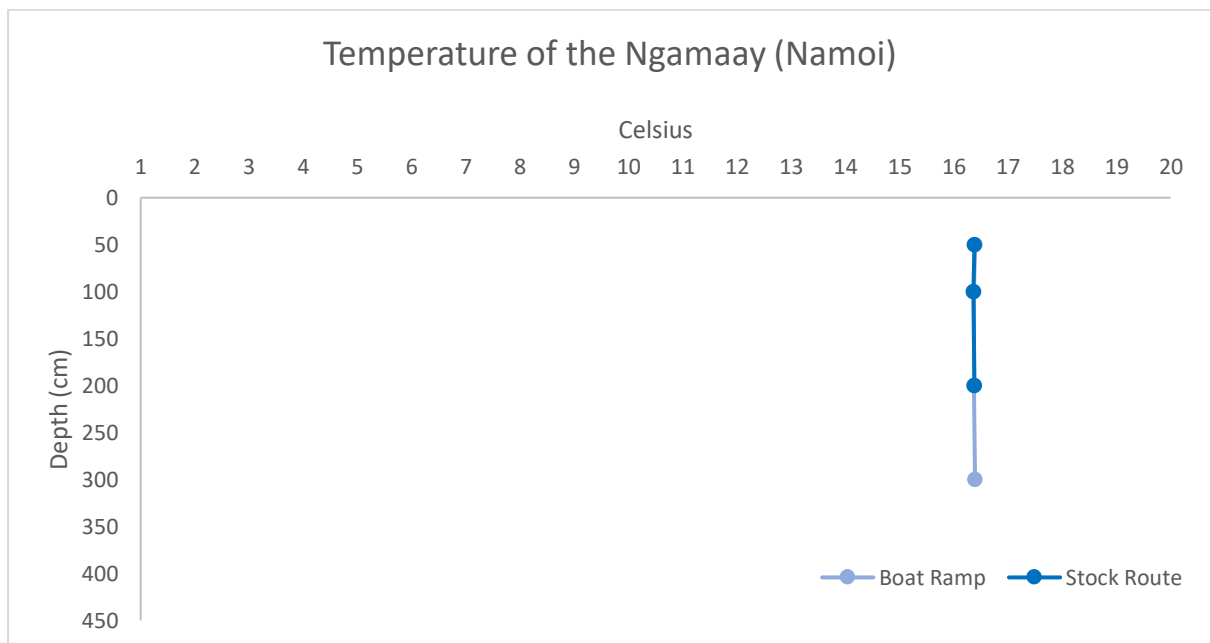
Salinity in the Ngamaay and Baawan Rivers



The salinity readings in the Ngamaay and Baawan Rivers are within the healthy range. The maximum reading is 316 and the minimum reading is 278.

Healthy Range: 125 - 2,200 uS/cm

Temperature in the Ngamaay and Baawan Rivers



The temperature measured at all sites on the Ngamaay and Baawan Rivers are outside the healthy range. The maximum reading is 16.39 and the minimum reading is 16.13.

Healthy Range: 18-28 degrees (Celsius)

Conclusion

The pH readings on the Baawan River are within the healthy range. There are a few readings at both the Boat Ramp and Stock Route (Ngamaay River) outside the healthy range.

Majority of the dissolved oxygen readings on the Ngamaay River are outside the healthy range. The first readings at both the 5 Mile and Walgett Weir (Baawan River) are outside the healthy range, after the first readings the dissolved oxygen decreases back into the healthy range for both sites.

The salinity in both the Ngamaay and Baawan Rivers are within the healthy range. This is good for freshwater fish.

The temperature is outside the healthy range. The temperature of the river is rising back to warmer temperatures.