



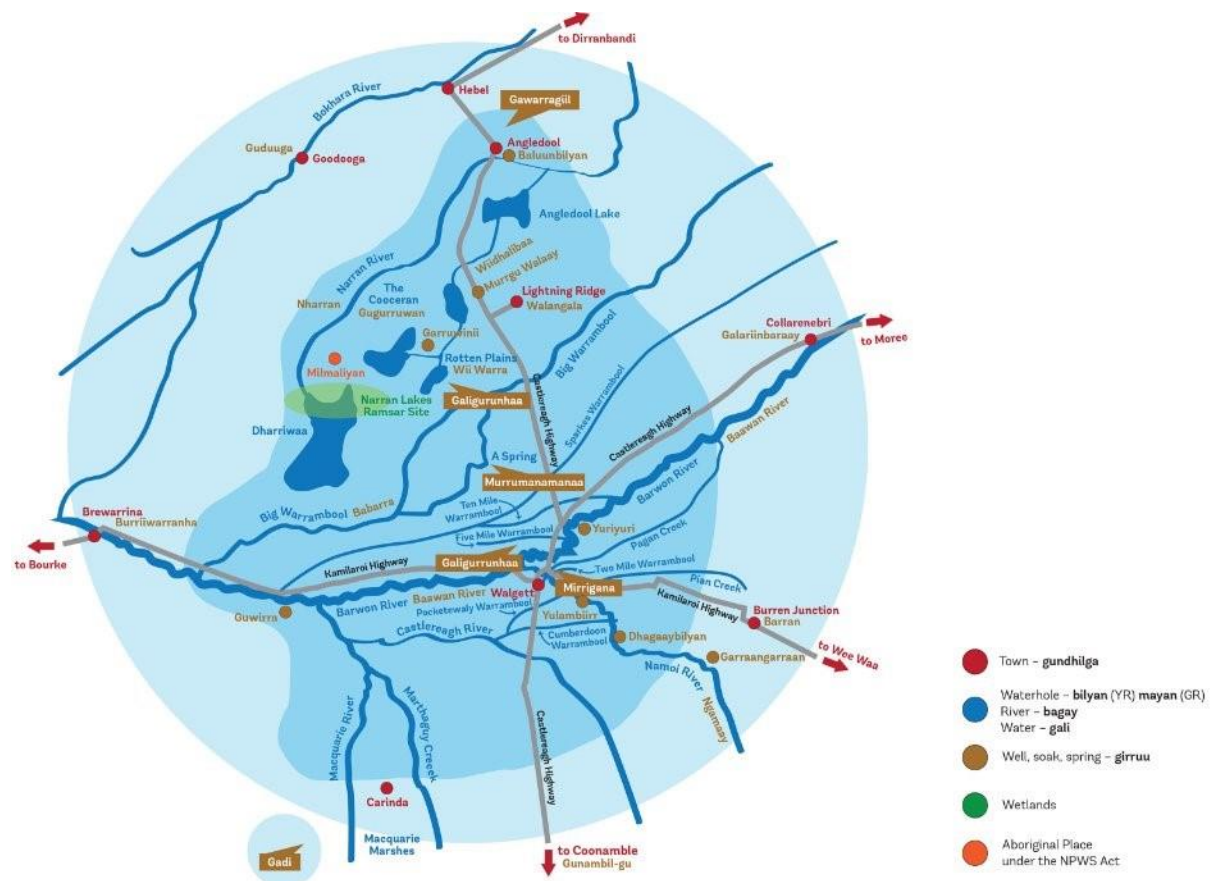
Weekly River Monitoring Report

14th May 2024

Introduction

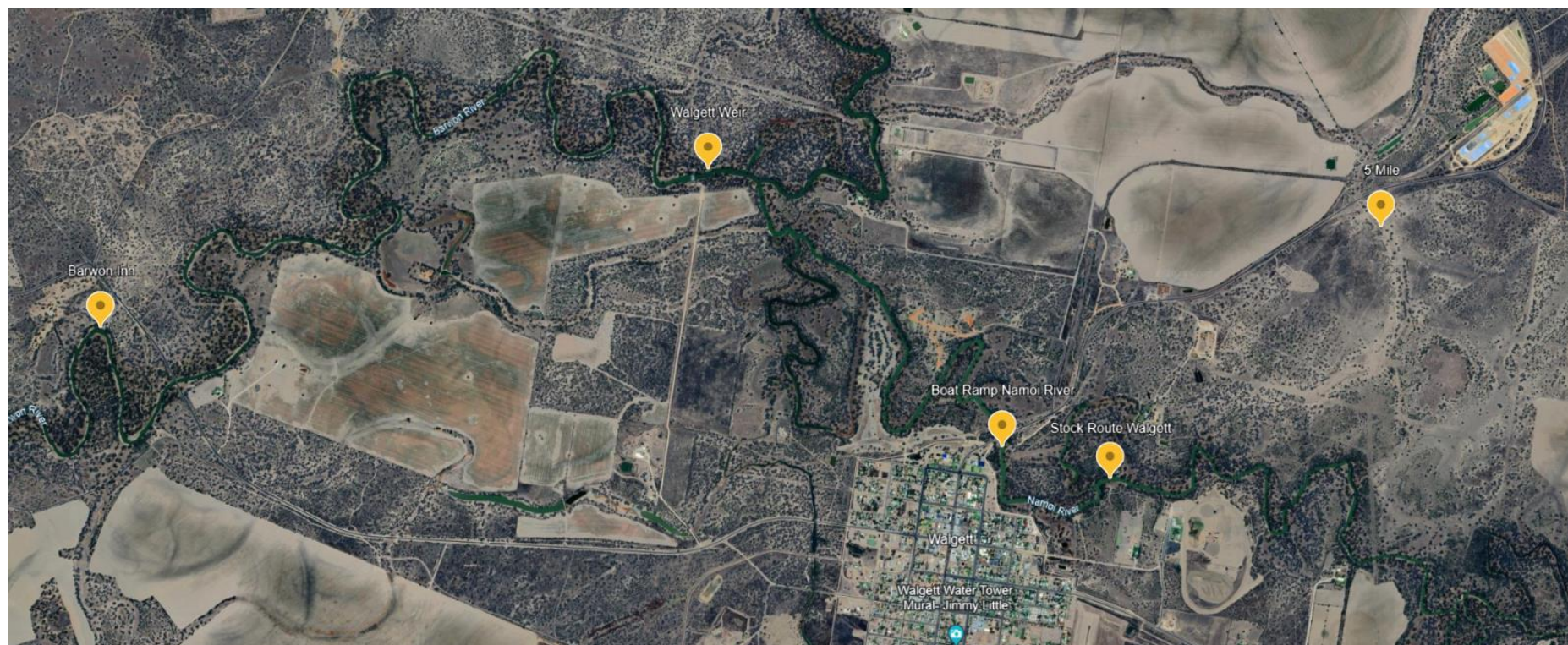
This data was collected on Thursday 9th May between 10am and 1pm on the Ngamaay (Namoi) and Baawan (Barwon) River.

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.

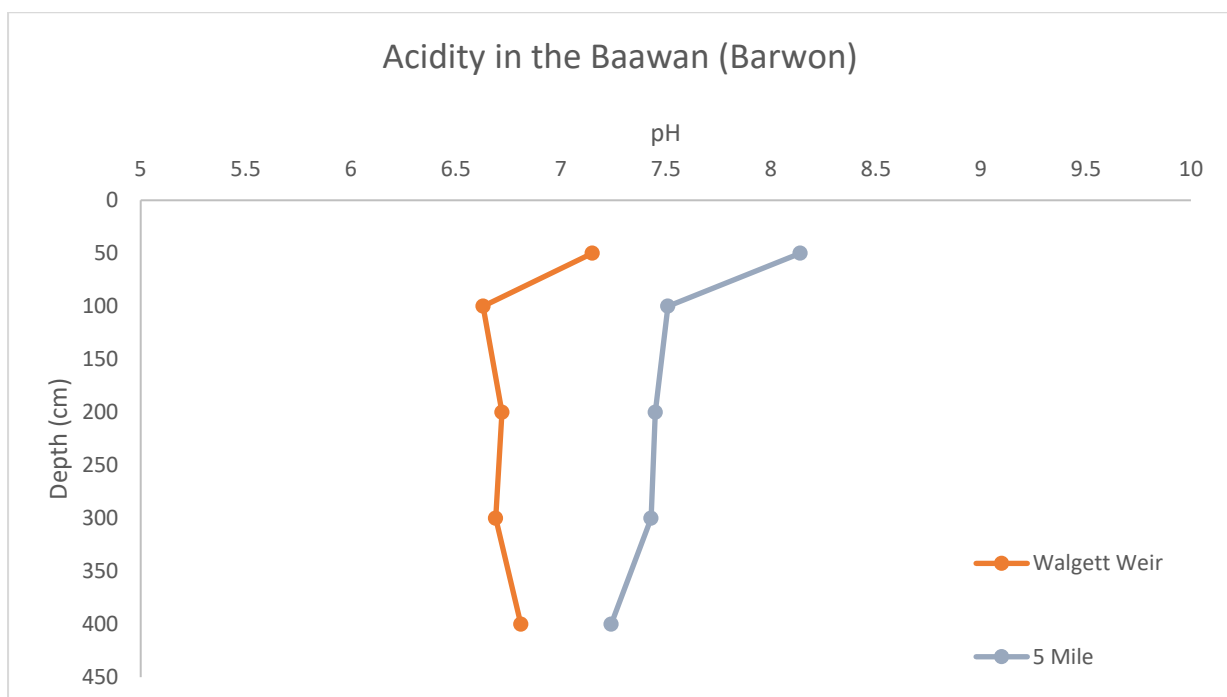
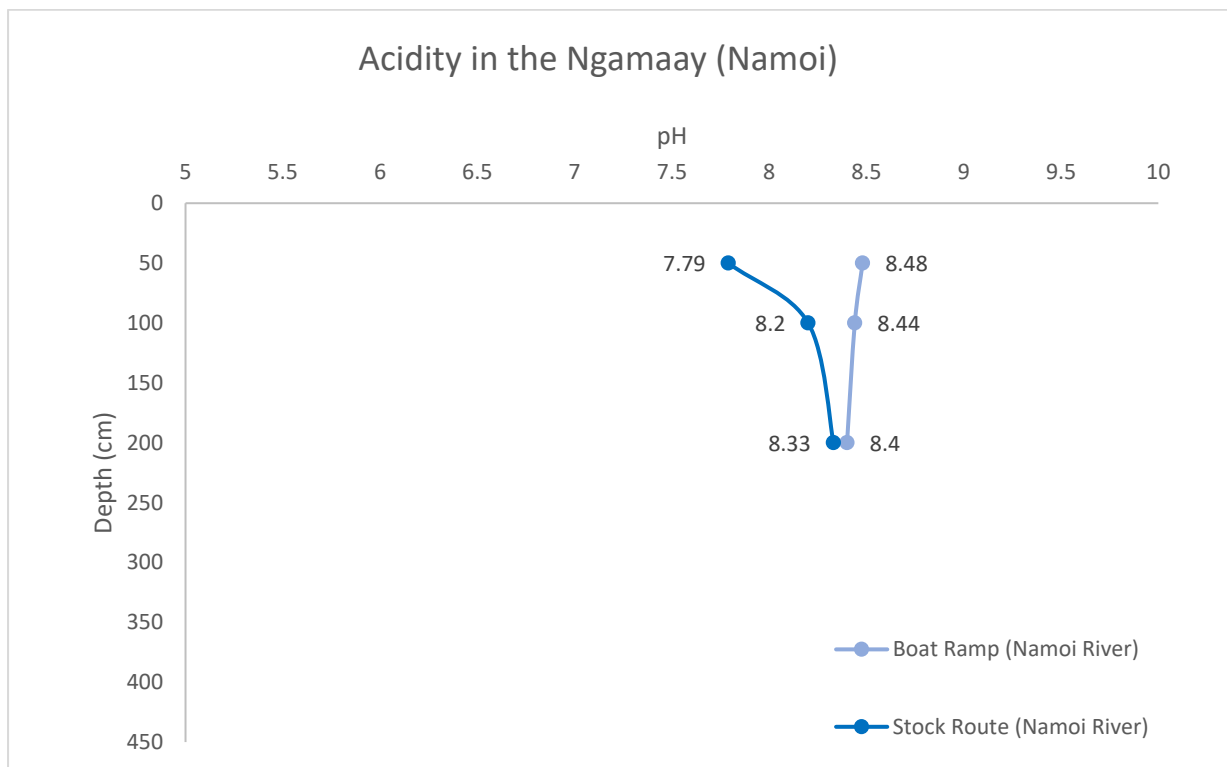


(Picture: Dharriwaa Elders Group area of interest)

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



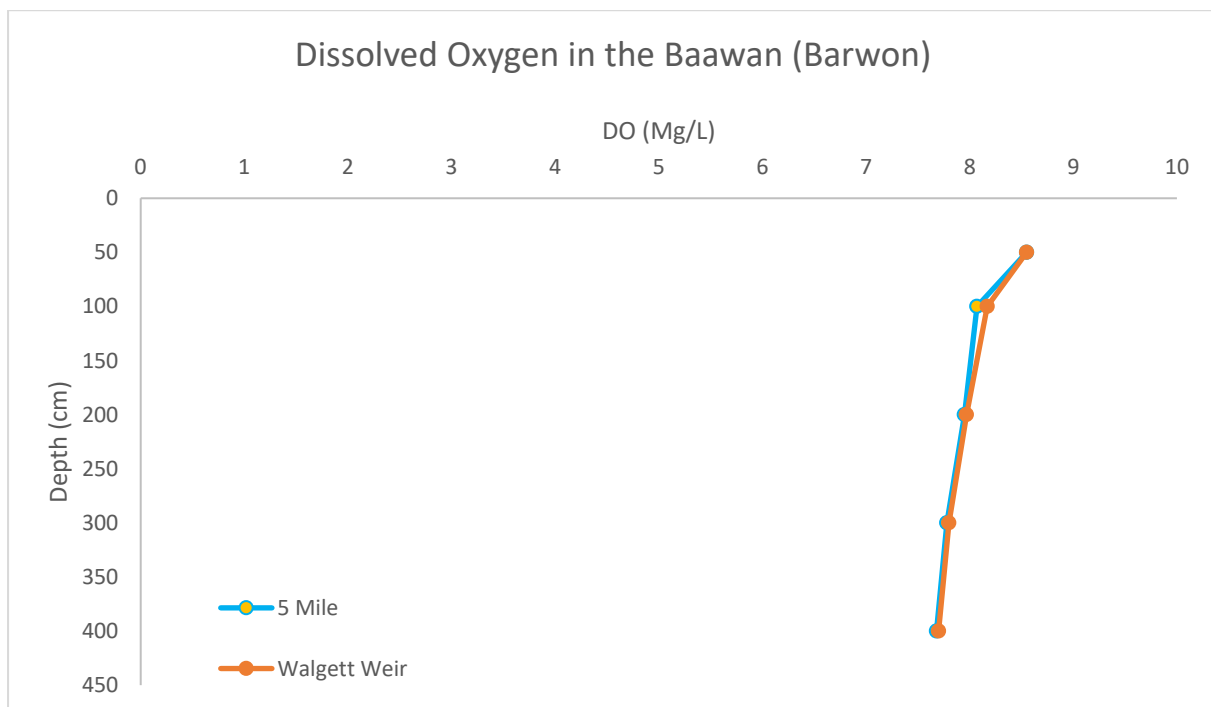
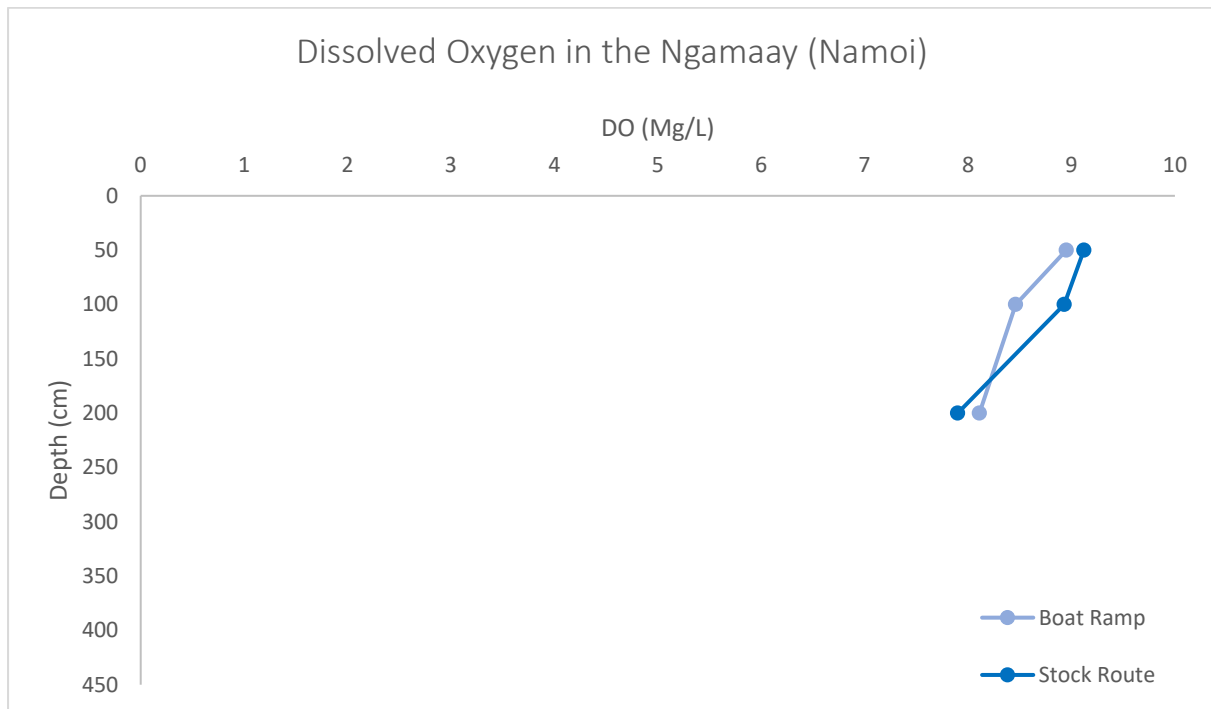
Acidity (pH) in the Ngamaay and Baawan Rivers



The pH on both the Ngamaay and Baawan rivers at all depths are within a healthy range. The minimum reading is 6.63 and the maximum reading is 8.48.

Healthy Range: 6.5 – 8.5 pH

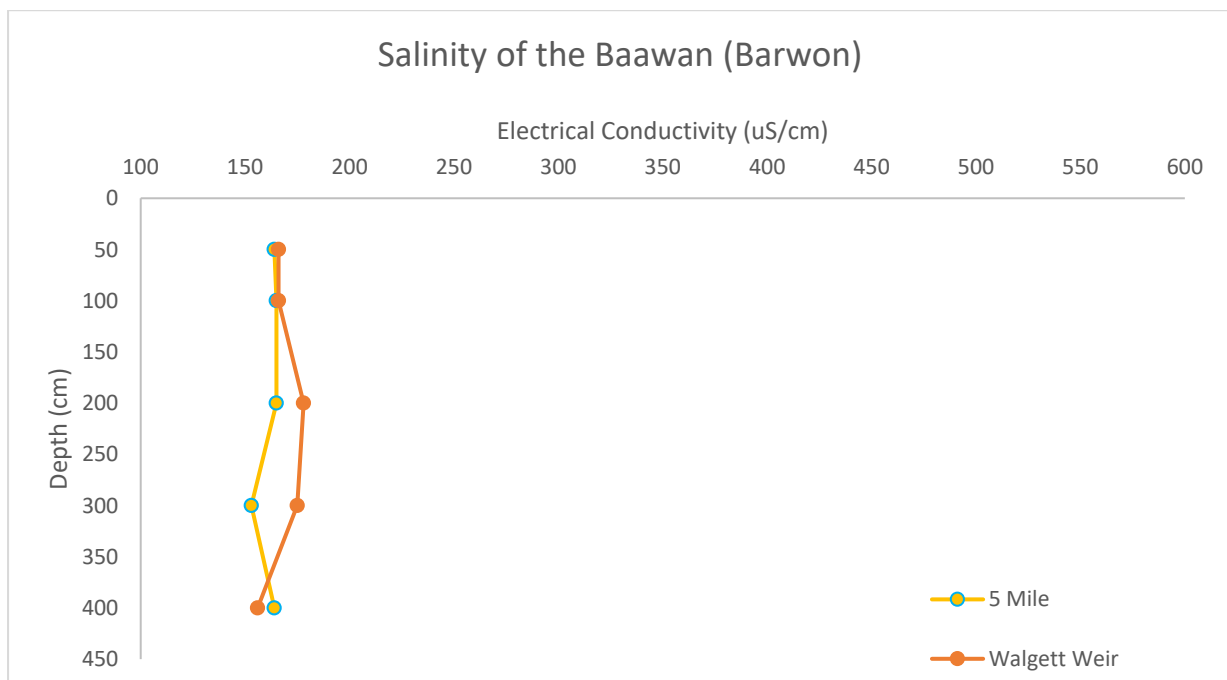
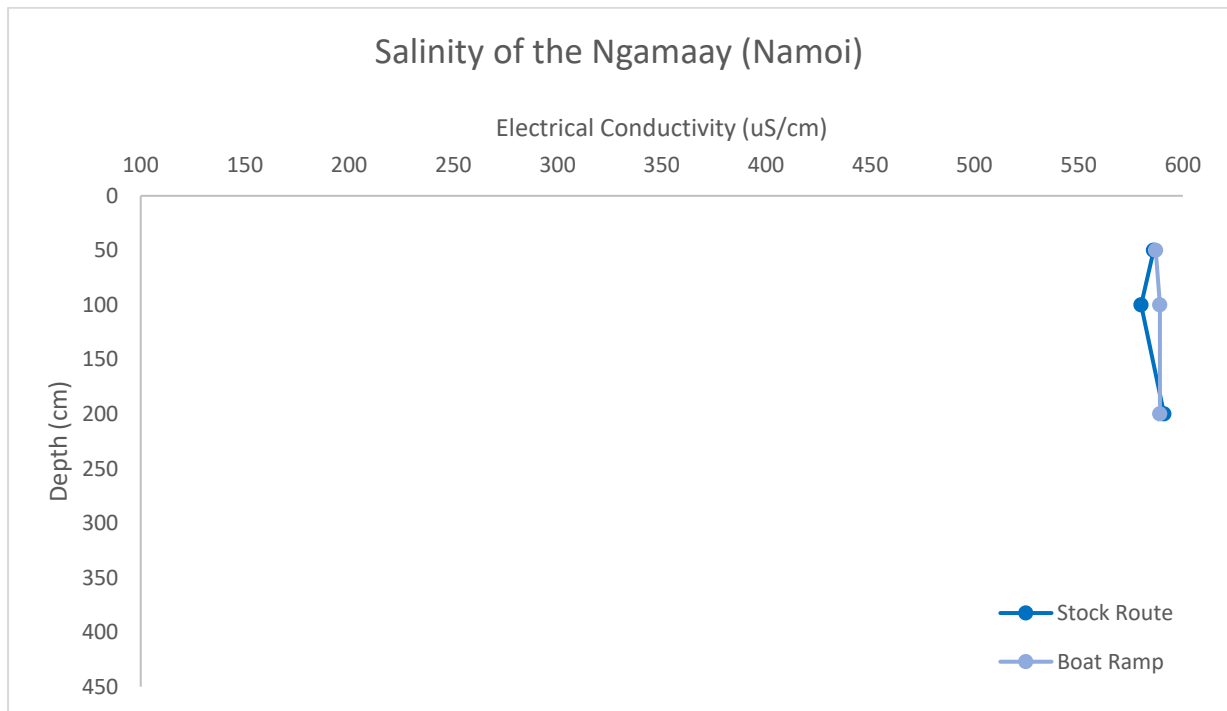
Dissolved Oxygen in the Ngamaay and Baawan River



The dissolved oxygen (mg/L) measured at each depth at each site on the Ngamaay and Baawan Rivers are within a healthy range. This is good for the fish within the rivers. The minimum reading is 7.68 and the maximum reading is 9.12.

Healthy Range: 6 – 8 (mg/L)

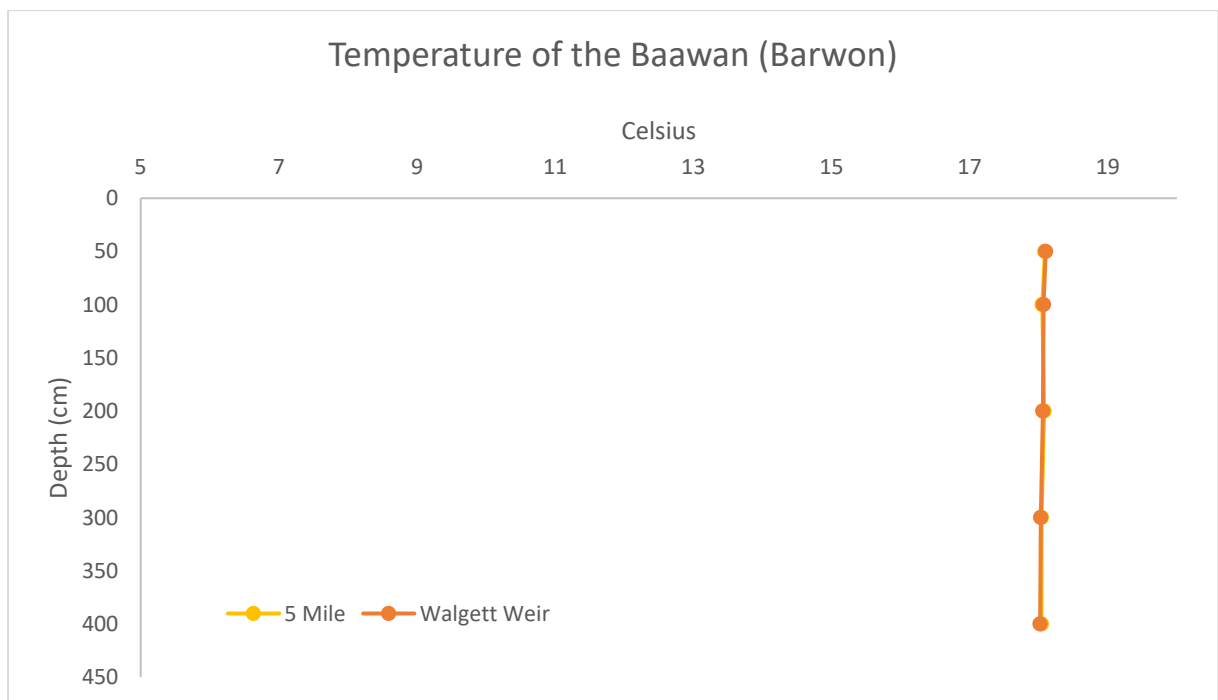
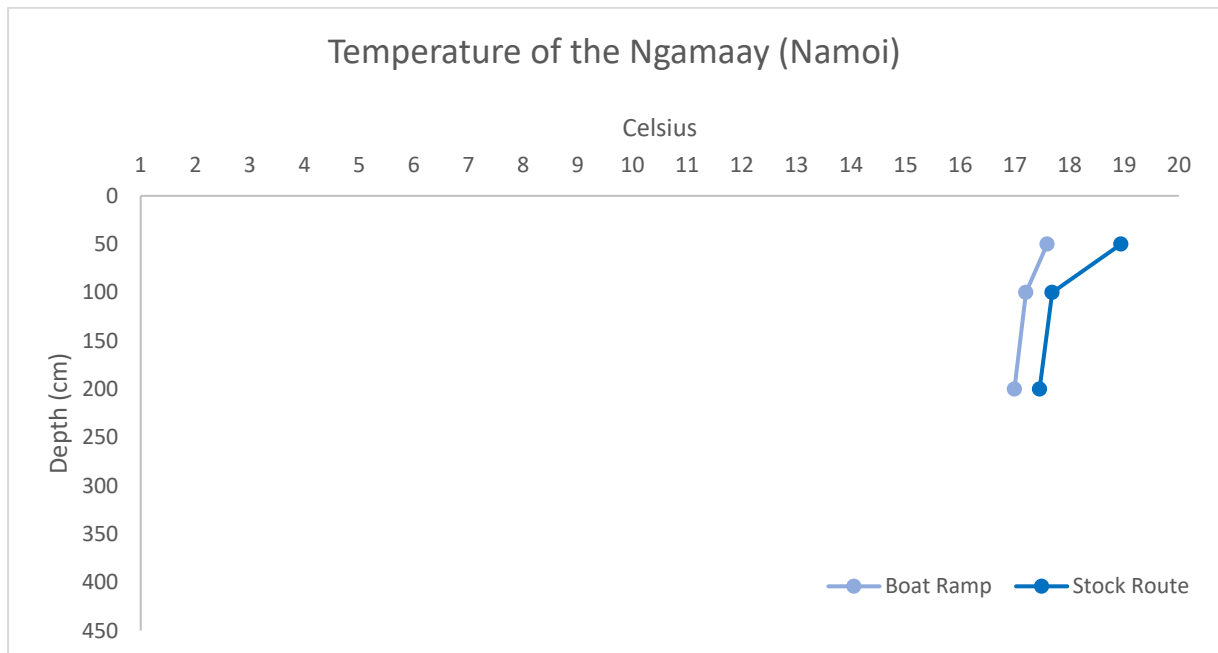
Salinity (Electrical Conductivity) in the Ngamaay and Baawan River



The salinity measured at each site at each depth is within a healthy range. This is good for freshwater fish. The minimum reading is 153 and the maximum reading is 591.

Healthy Range: 125 – 2,200 uS/cm

Temperature in the Ngamaay and Baawan River



The temperature measured at the Boat Ramp and the Stock Route in the Ngamaay River are outside of the healthy range but there is no danger to the fish. The temperature measured on the Baawan River are within a healthy range.

Healthy Range: 18 – 28 degrees (Celsius)

Conclusion

The pH, dissolved oxygen and the salinity (Electrical Conductivity) are within a healthy range at all sites and depths.

The temperature measured in the Ngamaay River is outside of the healthy range but there is no danger to the fish. The temperatures measured in the Baawan River are within the healthy range.