



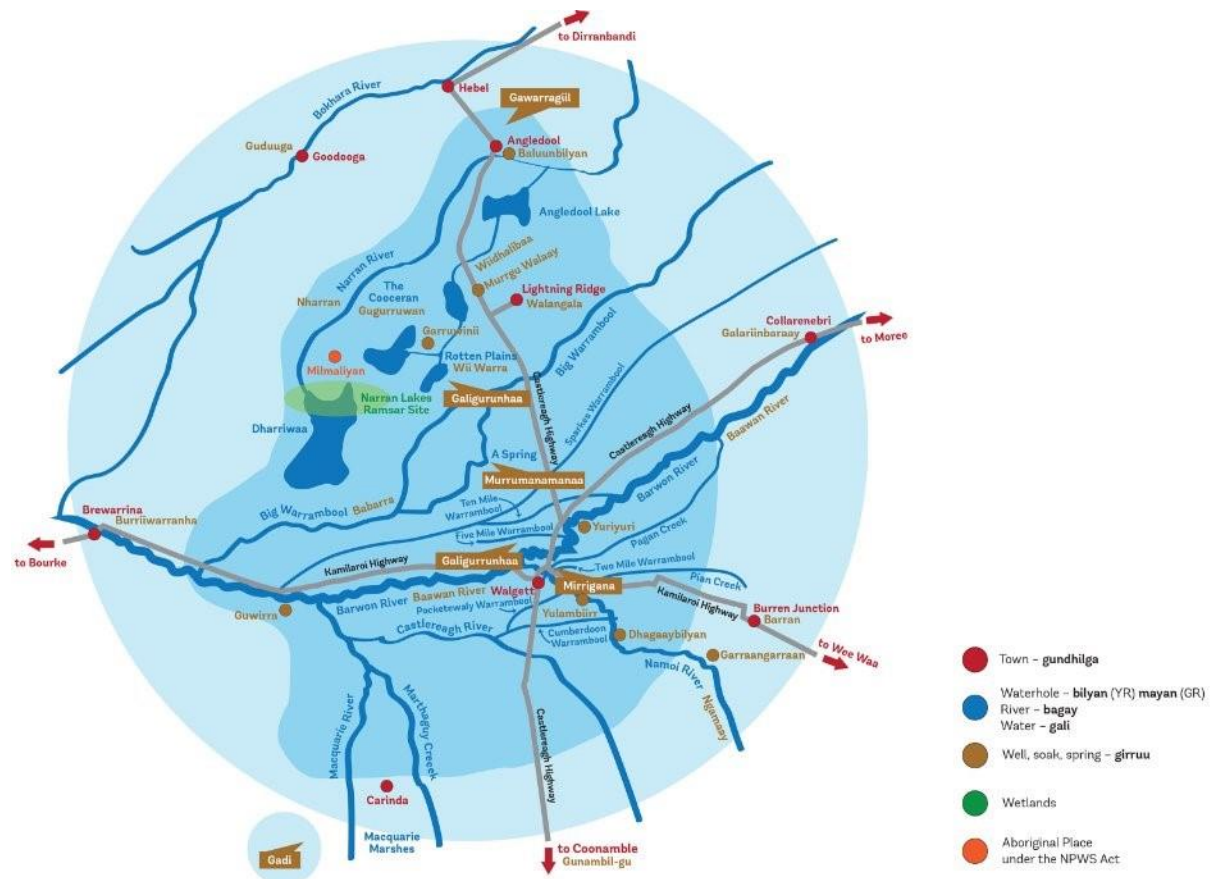
Weekly River Monitoring Report

25/06/2025

Introduction

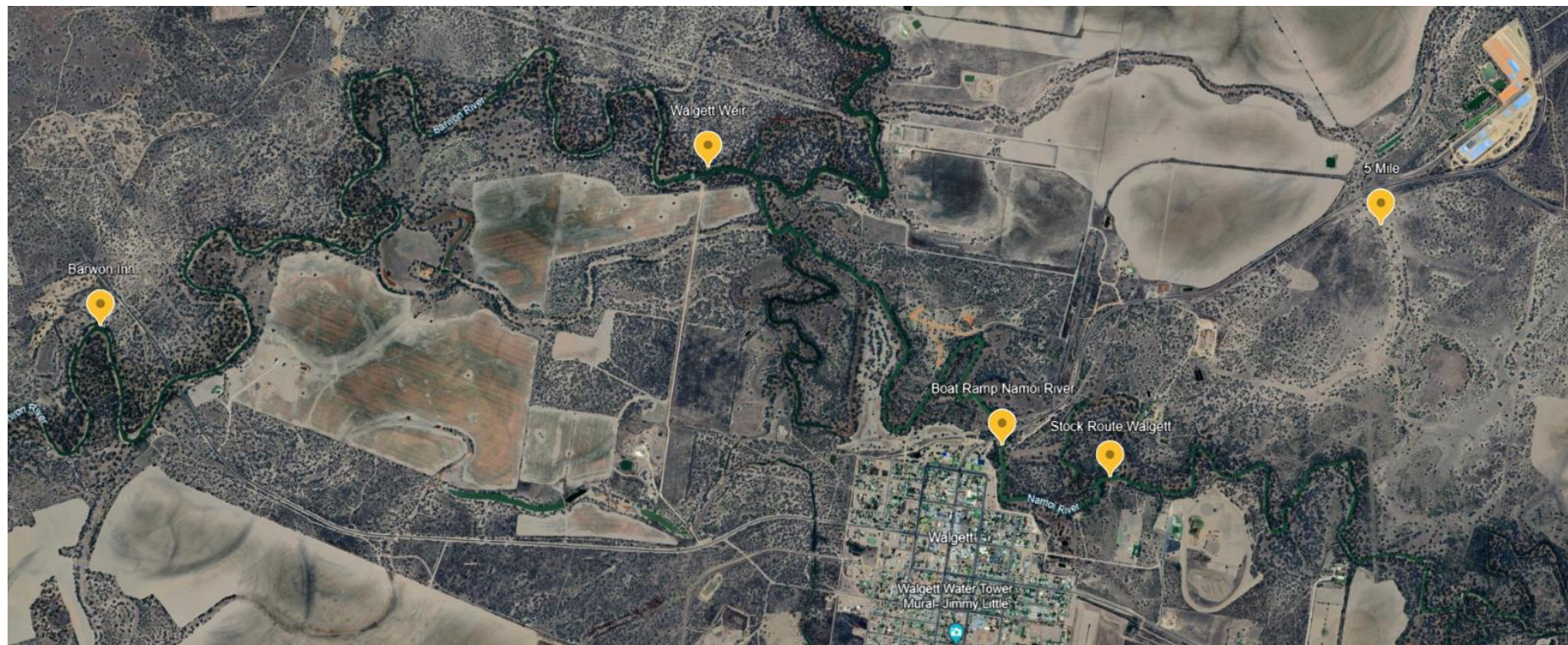
This data was collected on Wednesday 25th June between 10am and 1pm on the Ngamaay (Namoi) and Baawan (Barwon) Rivers.

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.

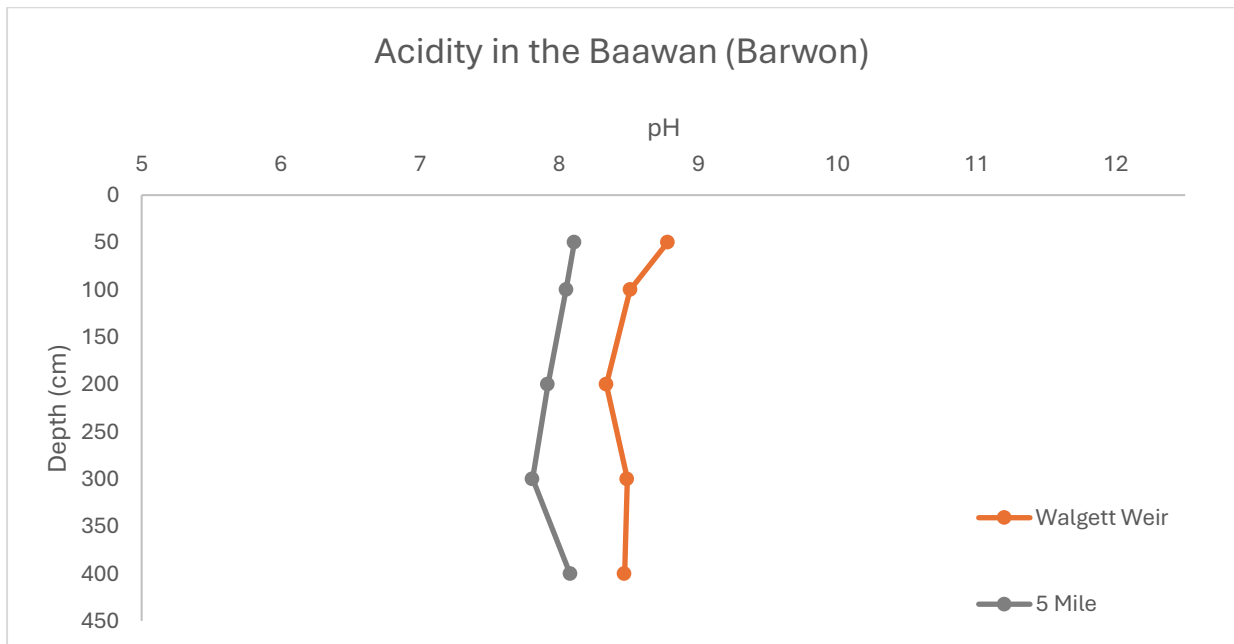
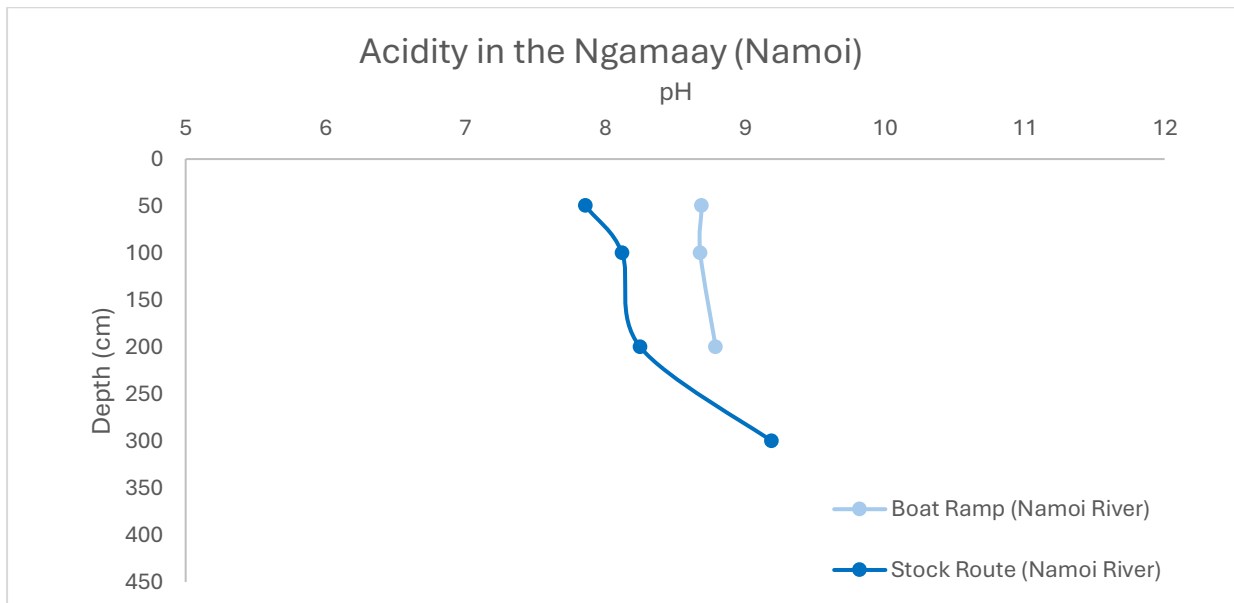


(Picture: Dharriwaa Elders Group area of interest)

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



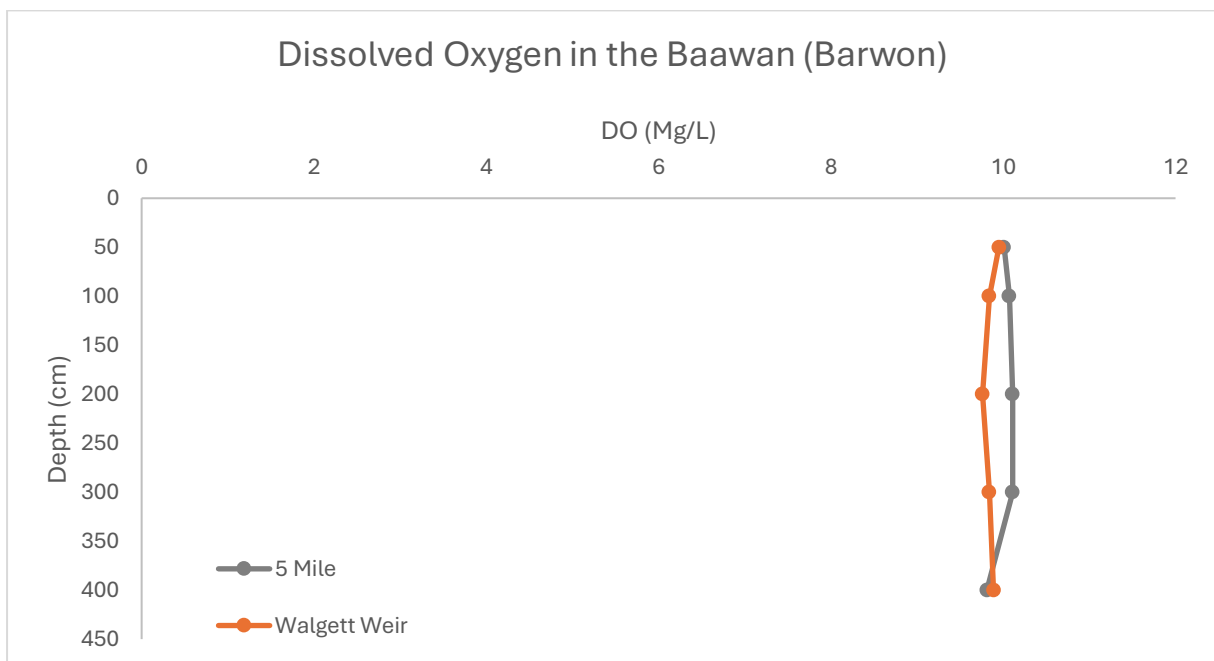
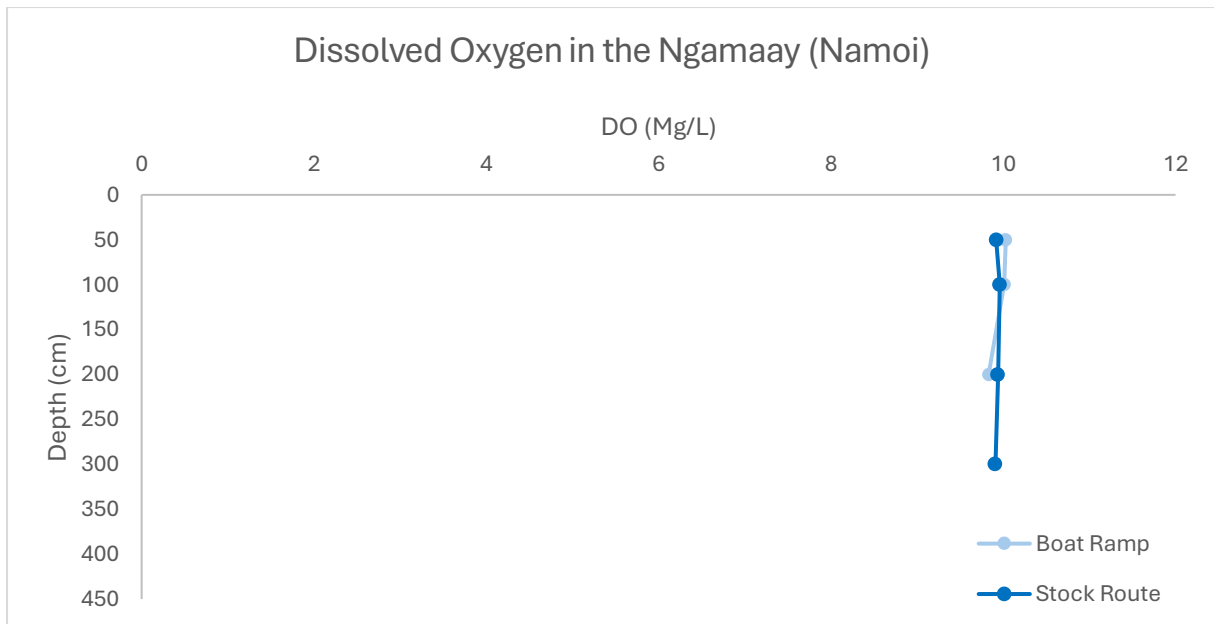
Acidity in the Ngamaay and Baawan Rivers



The pH levels in the Ngamaay at Stock Route are within the healthy range at shallow depths but become higher as the test depths increase. The levels at Boat Ramp are just outside the healthy range. The pH levels in the Baawan are within the healthy range except at 0.5m at Walgett Weir. Overall the levels have decreased since the testing on the 10th of June, especially at Stock Route in the Ngamaay. The minimum reading is 7.81 and the maximum reading is 9.19.

Healthy range: 6.5-8.5

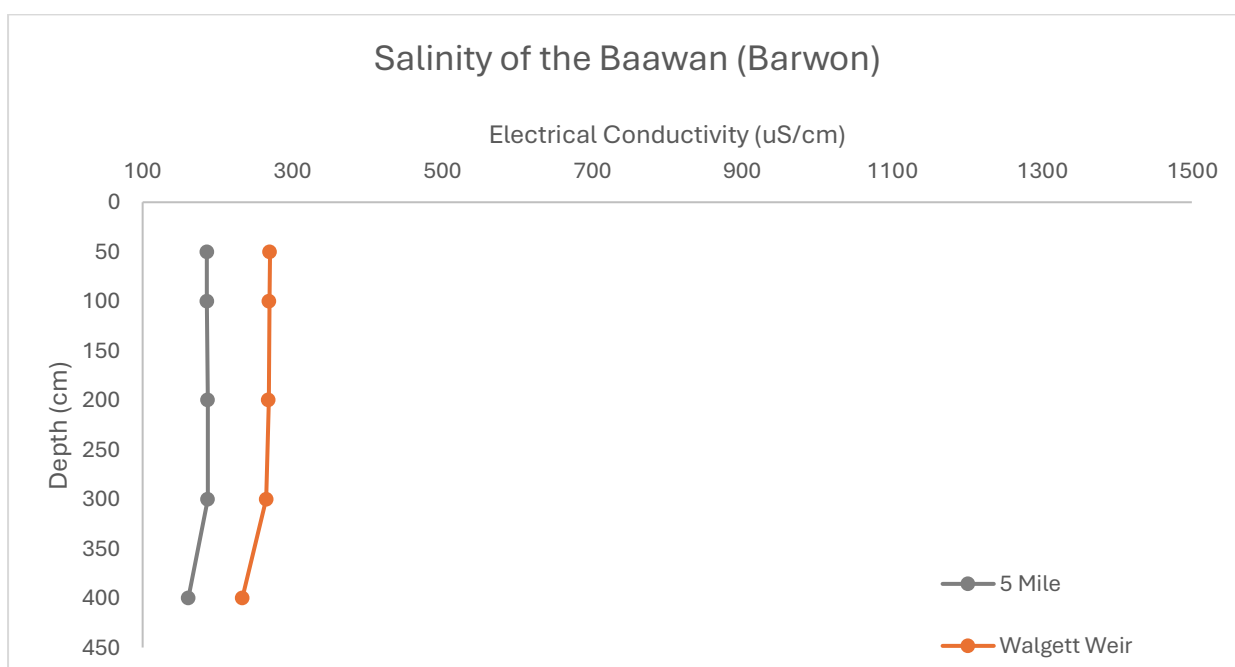
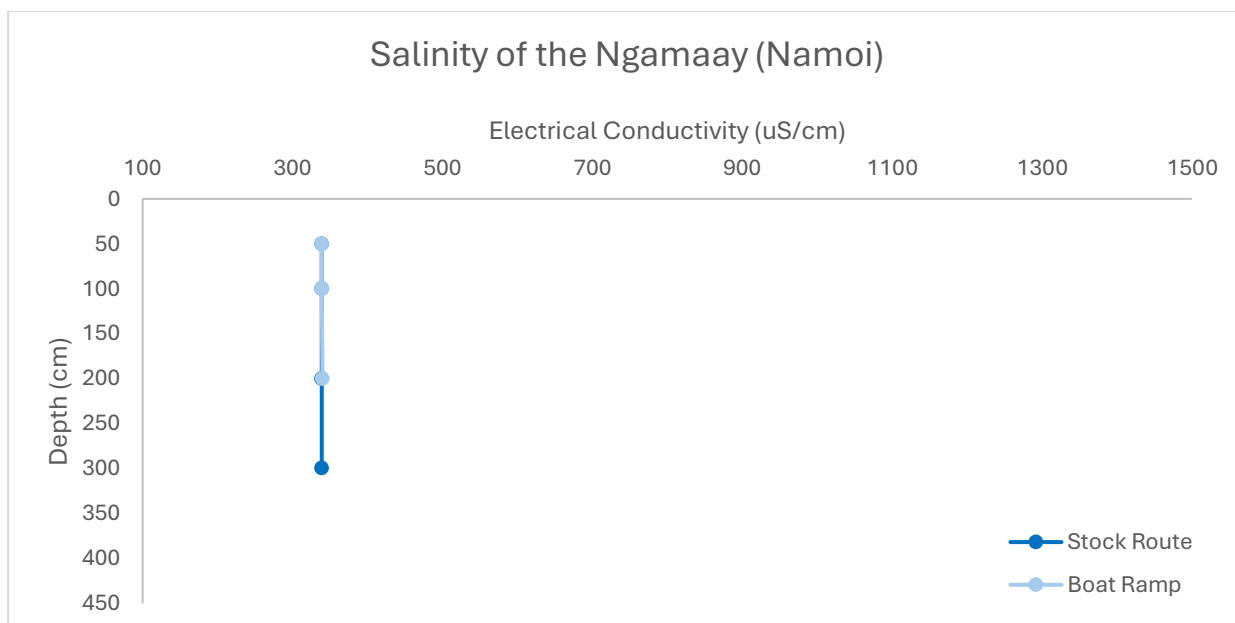
Dissolved Oxygen in the Ngamaay and Baawan Rivers



The dissolved oxygen levels are higher than the healthy range and have increased since the previous testing. These levels will continue to be monitored as although they may not cause harm to native species they are still too high. The minimum reading is 9.76 and the maximum reading is 10.11.

Healthy Range: 6 - 8 (Mg/L)

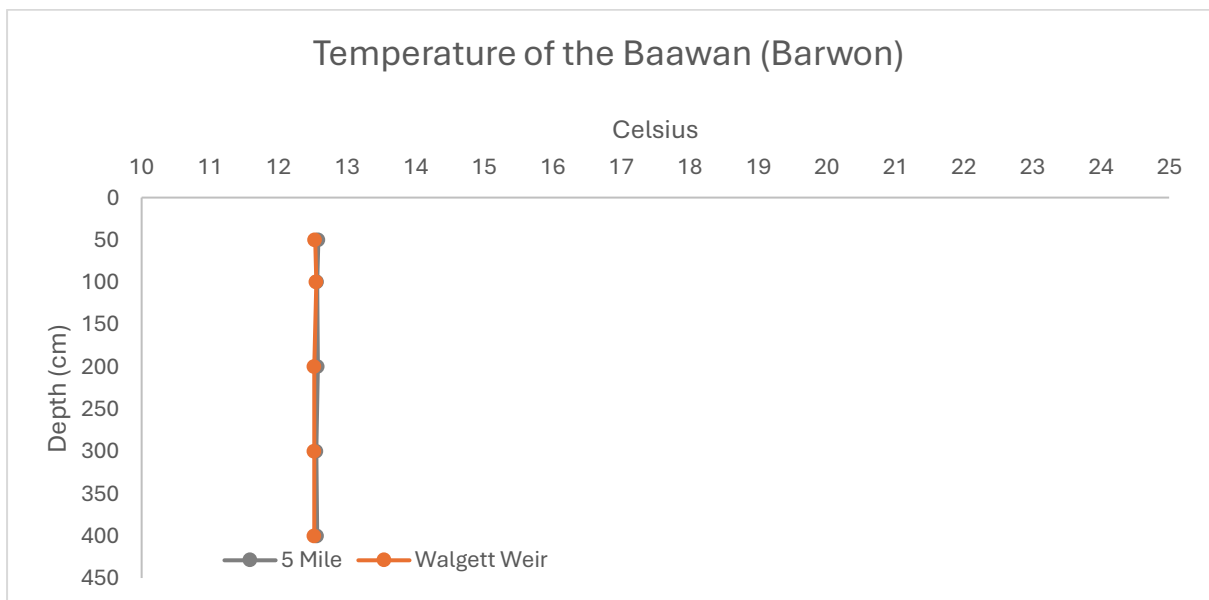
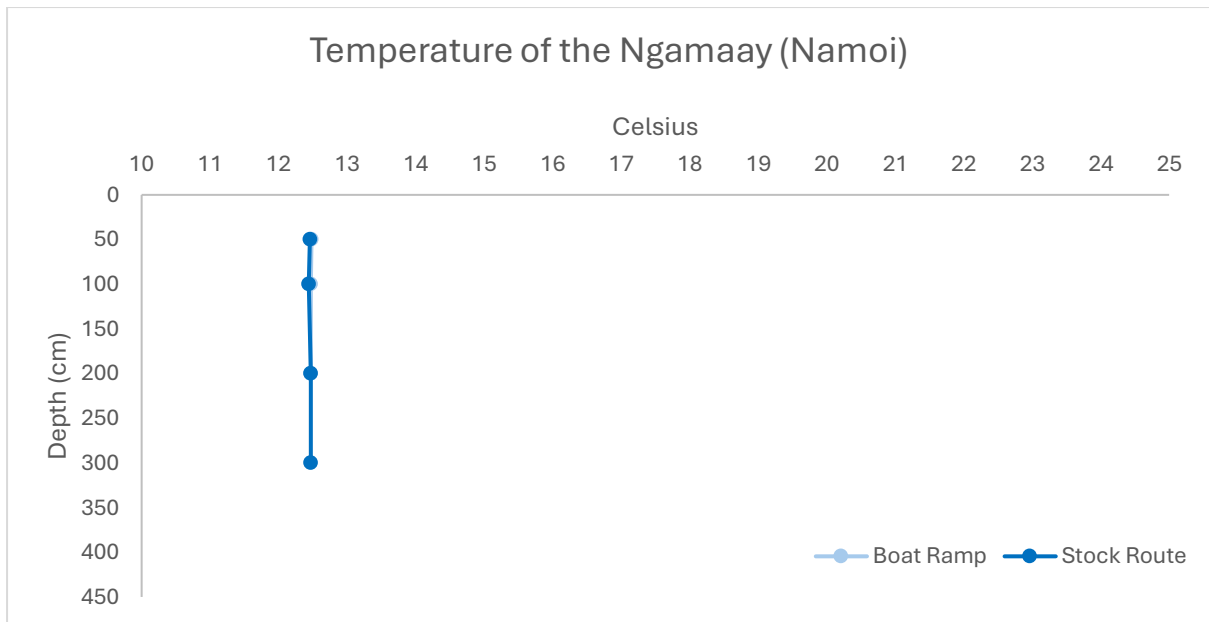
Salinity in the Ngamaay and Baawan Rivers



The salinity in both rivers is within the healthy range. The minimum reading is 161 and the maximum reading is 340.

Healthy Range: 125 - 2,200 uS/cm

Temperature in the Ngamaay and Baawan Rivers



The temperature in both rivers is quite low but this is typical for the time of year. The minimum reading is 12.44 and the maximum reading is 12.58.

Healthy Range: 18-28 degrees

Conclusion

The pH levels in both rivers have decreased since the testing on the 10th of June but are still outside the healthy range at several sites and depths.

The dissolved oxygen readings have increased since the previous testing and are outside the healthy range. These levels are not dangerous but should continue to be monitored as high pH levels and high dissolved oxygen levels combined can indicate algal blooms.

The salinity levels are within the healthy range in both rivers.

The temperatures in both rivers are low but this is typical for the time of year that the testing is done.