



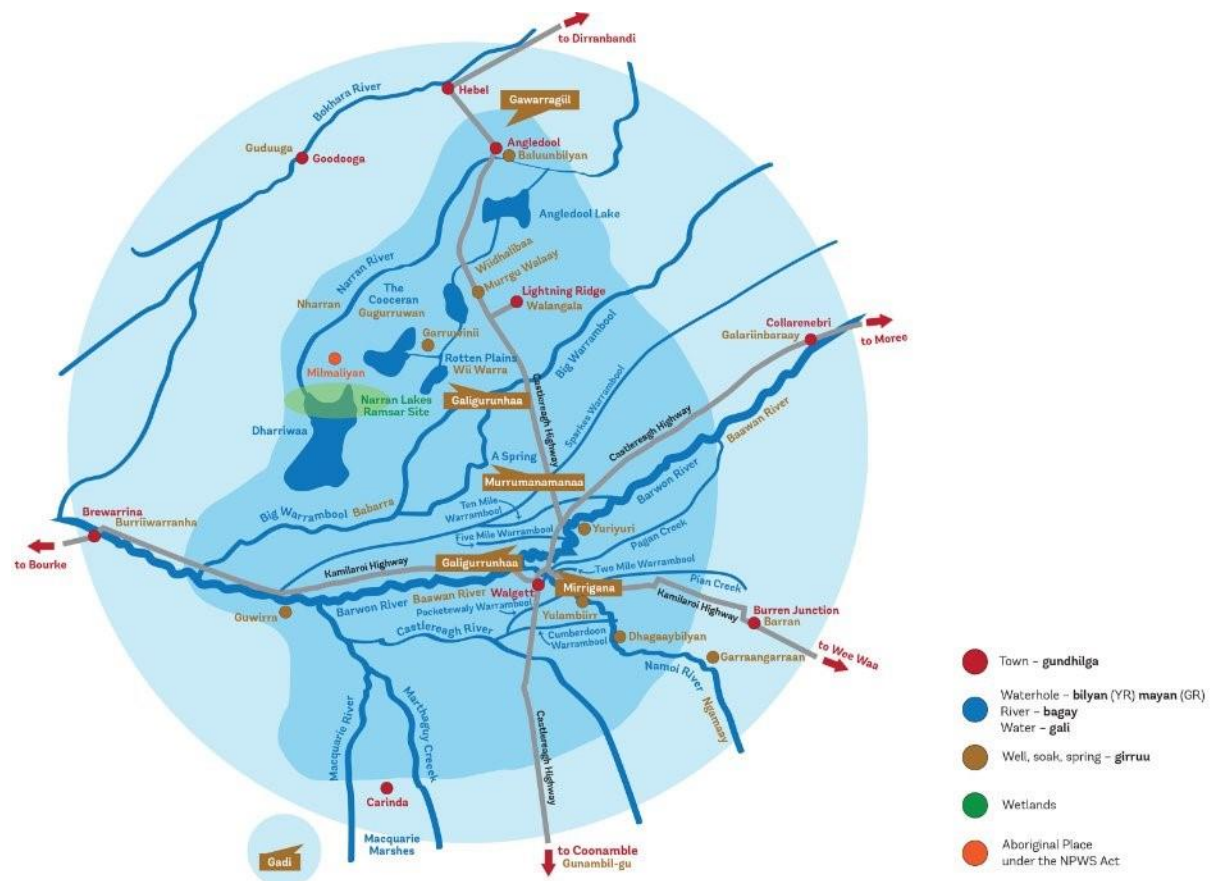
Weekly River Monitoring Report

28/07/2025

Introduction

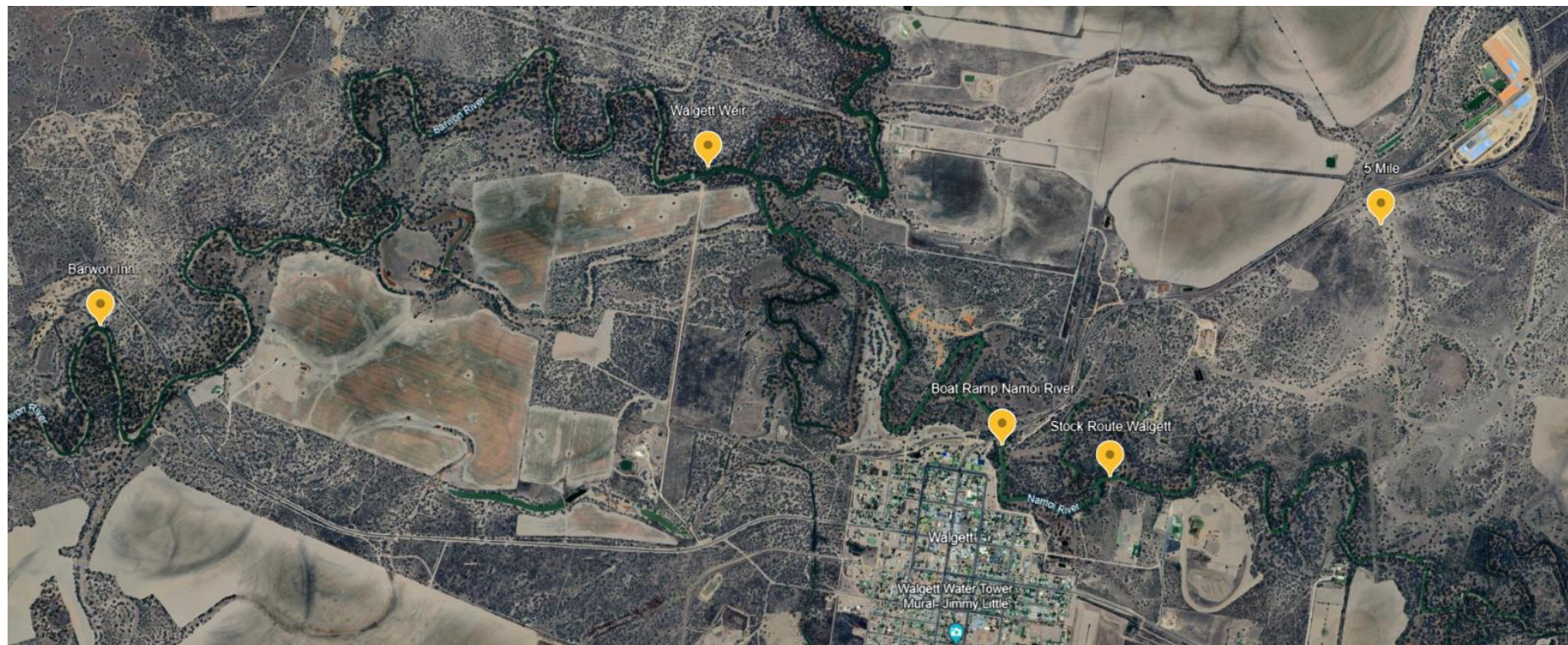
This data was collected on Monday 28th July between 10am and 1pm on the Ngamaay (Namoi) and Baawan (Barwon) River.

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.

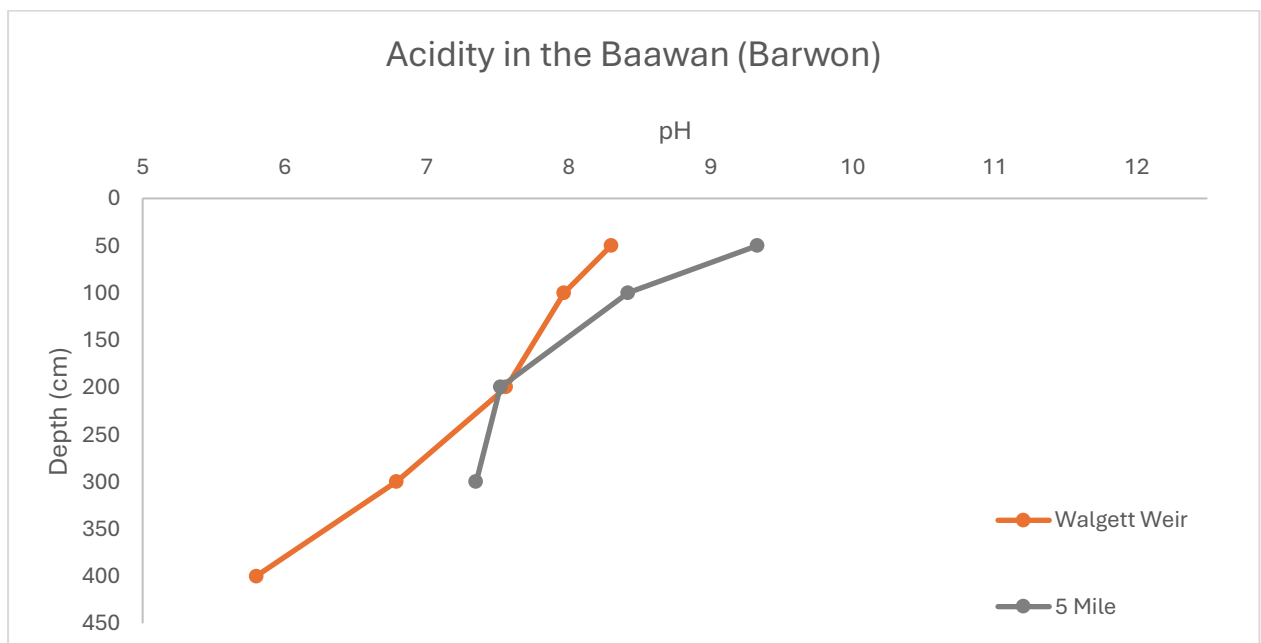
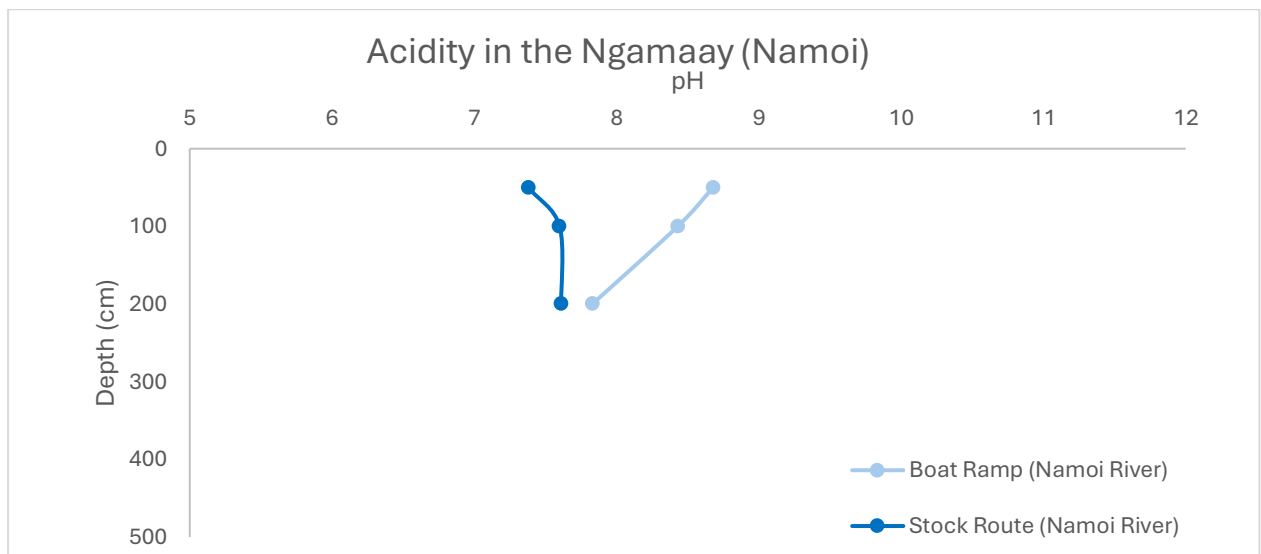


(Picture: Dharriwaa Elders Group area of interest)

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



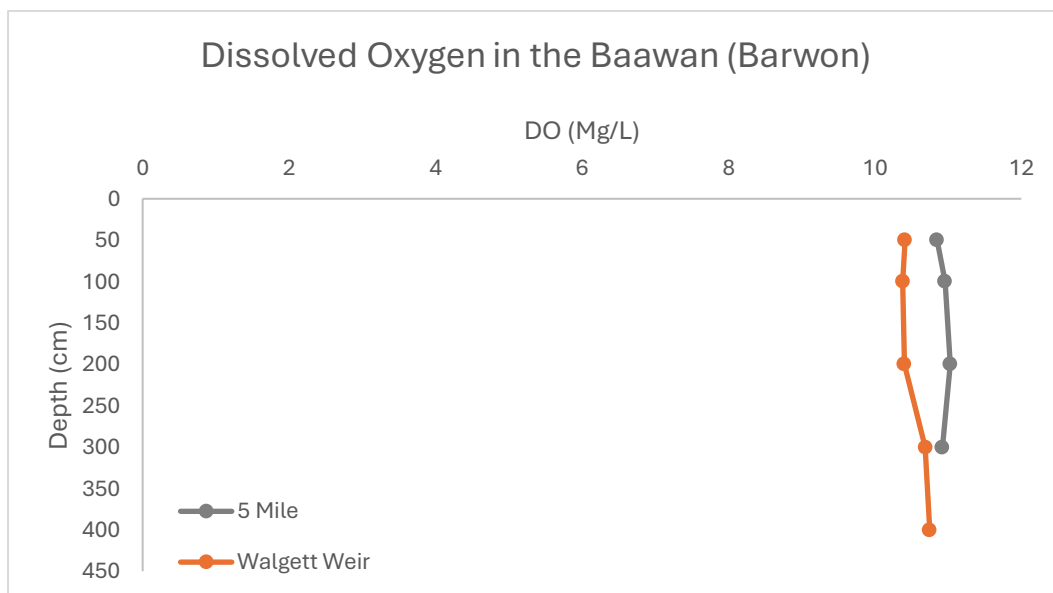
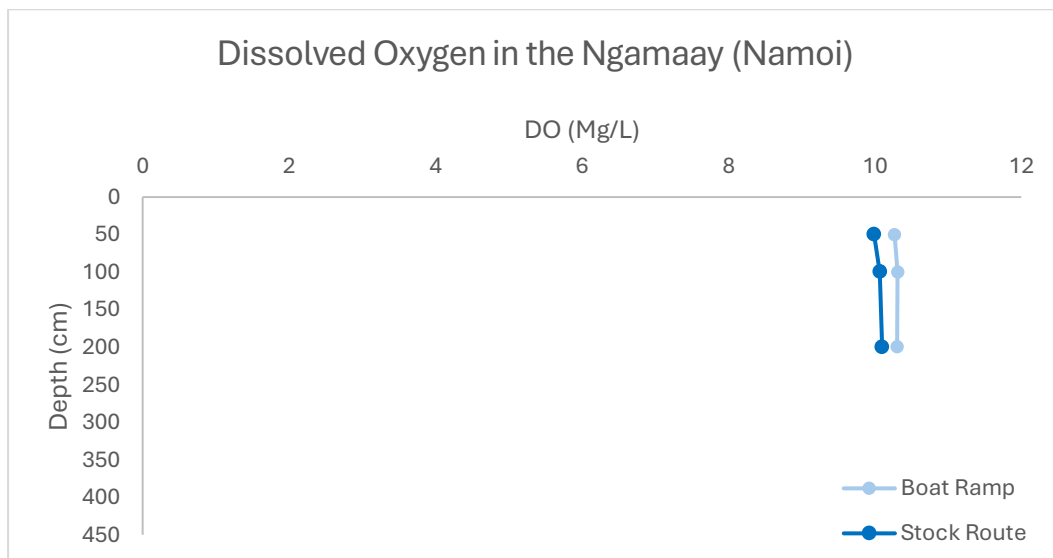
Acidity in the Ngamaay and Baawan Rivers



The pH in the Ngamaay is within the healthy range except at the Boat Ramp site at 0.5m. The pH in the Baawan is within the healthy range except at 0.5m at 5 Mile and at 4m at Walgett Weir. These levels have improved since testing on the 14th and are of less concern. The minimum reading is 5.8 and the maximum reading is 9.33.

Healthy range: 6.5 - 8.5 pH

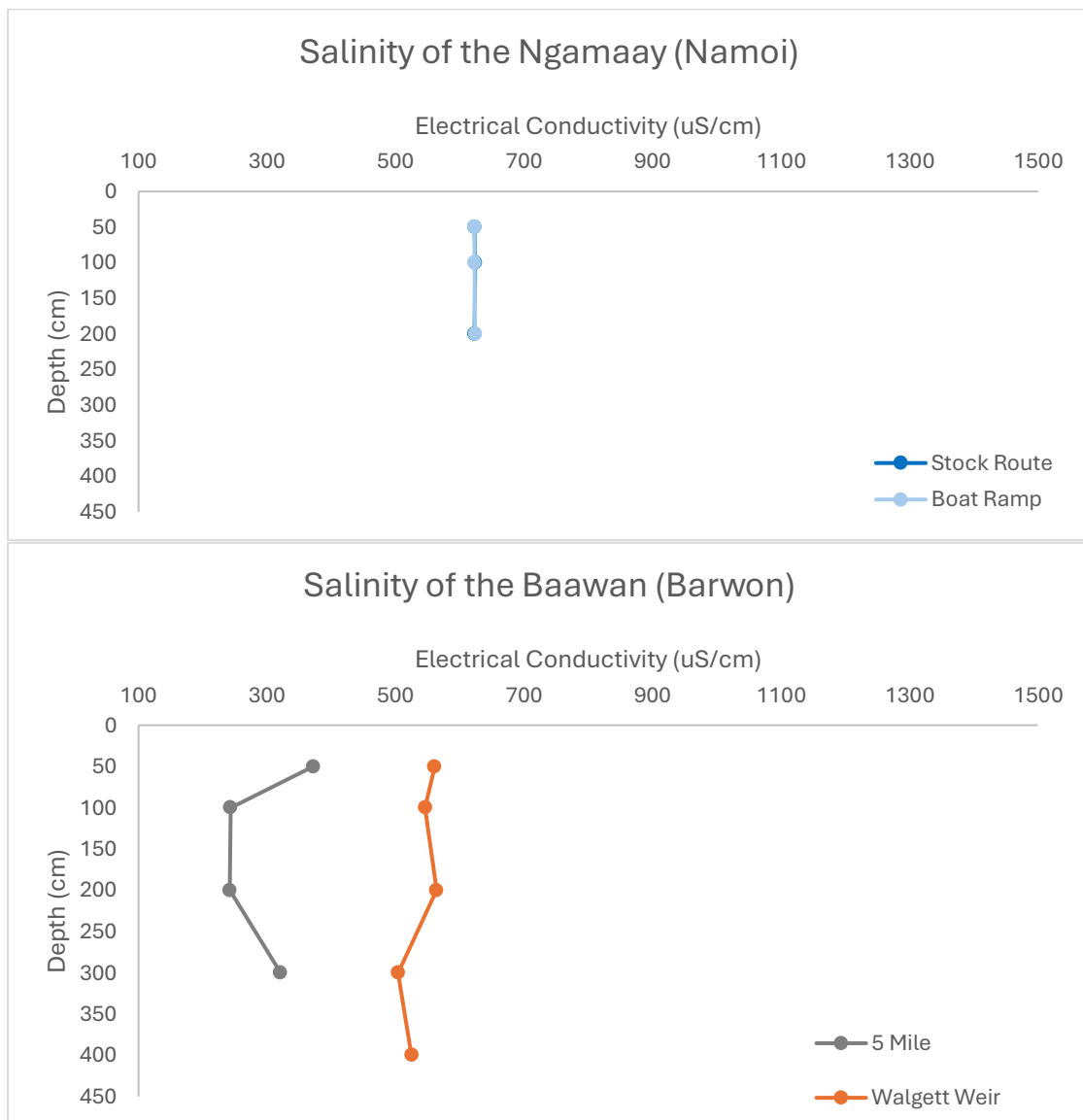
Dissolved Oxygen in the Ngamaay and Baawan Rivers



The dissolved oxygen levels in both the Baawan and the Ngamaay Rivers are high but not at levels of concern. Cold weather can cause more dissolved oxygen to gather in water. The minimum reading is 9.99 and the maximum is 11.03.

Healthy Range: 6 - 8 (Mg/L)

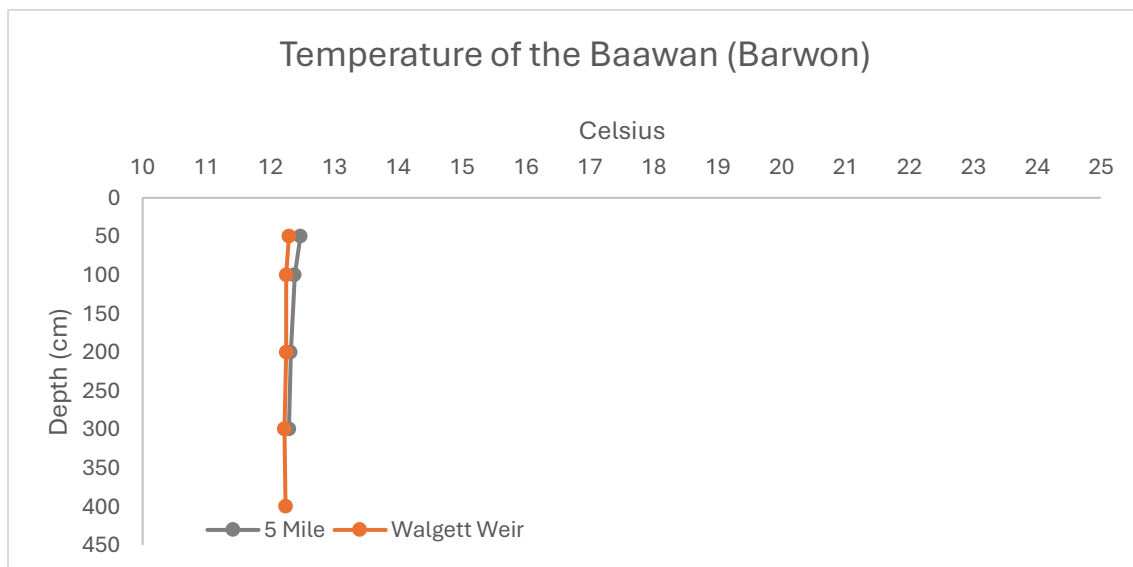
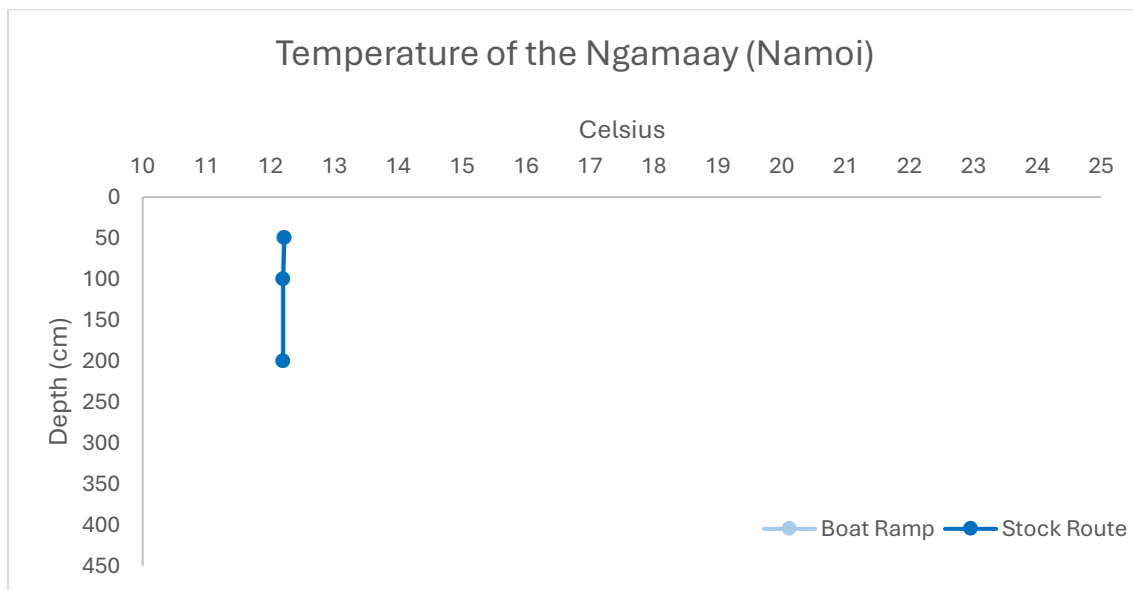
Salinity in the Ngamaay and Baawan Rivers



The salinity in both rivers is within the healthy range. The minimum reading is 242 and the maximum reading is 624.

Healthy Range: 125 - 2,200 uS/cm

Temperature in the Ngamaay and Baawan Rivers



The temperature in both rivers is very low but this is typical for the time of year. The readings have increased since they were last measured on the 14th of July. The minimum reading is 12.19 and the maximum is 12.47.

Healthy Range: 18-28 degrees

Conclusion

The pH levels are mostly within the normal range, an improvement from last week. These levels should continue to be monitored to make sure they are all within the healthy range.

The dissolved oxygen levels are all higher than normal, but they are not cause for alarm. They will continue to be monitored.

The salinity levels are all within the healthy range.

The temperatures are all lower than the healthy range but this may be a symptom of the time of year and time of day that the tests are taken. They have increased slightly since the previous testing.