

Rodington Parish – River Monitoring Data (July 2026)

Rodington Parish Council's Climate and Nature Steering Group has been collecting data on the quality of the two rivers that flow through the parish—the River Roden and the River Tern—for the past two years. We have now collected data on 10 separate days from nearly 70 samples.

The sampling sites are:

River Roden

Upstream: Er call Mill Bridge

Mid Point: Rodington Bridge

Downstream: Bridge on Isombridge Lane

River Tern

Upstream: Bridge in Longdon on Tern

Mid point: Isombridge Farm

Downstream: Walcott Mill Bridge

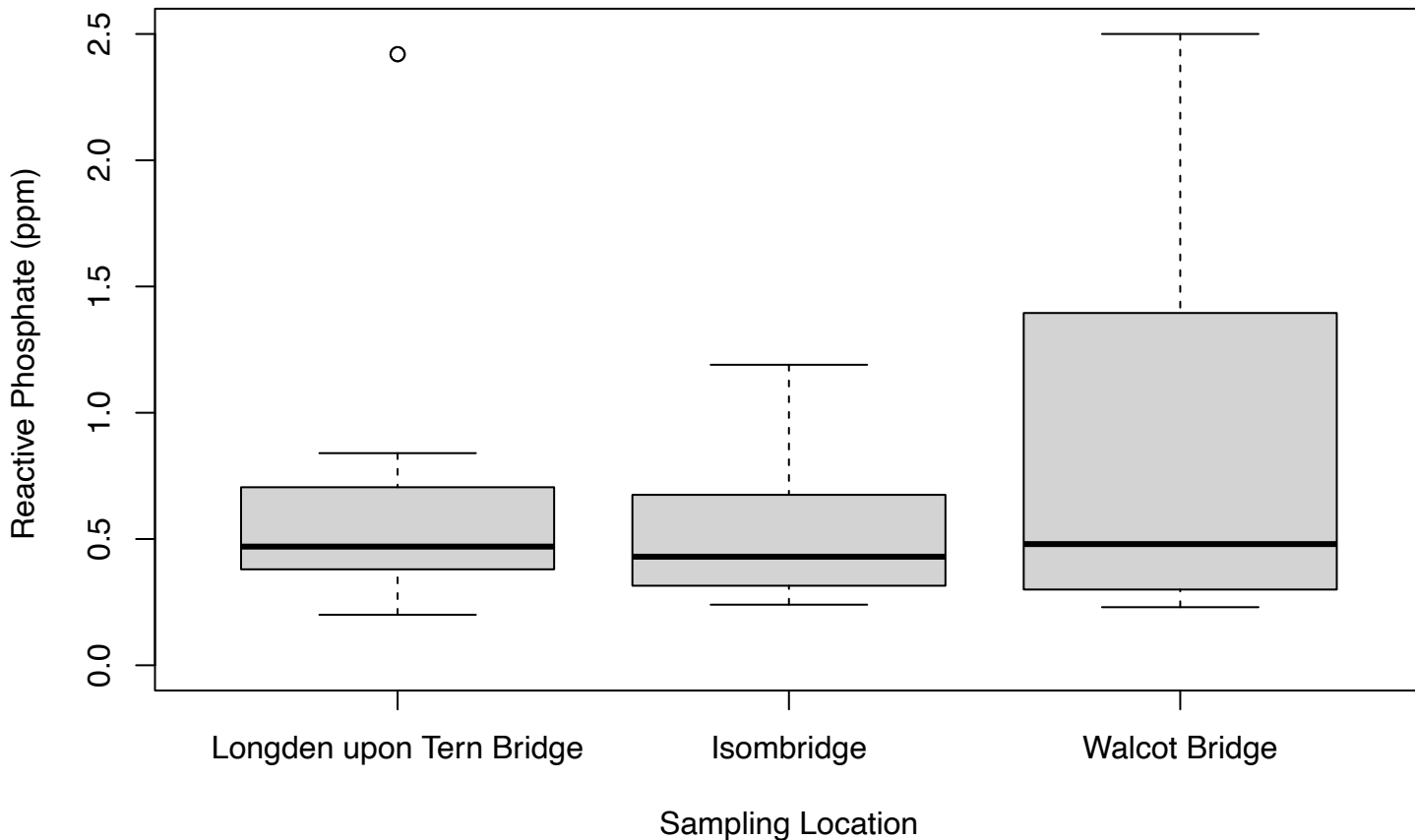
The charts below show reactive phosphate concentrations, pH, and dissolved oxygen in relation to water temperature. The results are presented as box plots for the three sampling sites on the two rivers that flow through the parish. Each box plot contains the middle 50% of the data, with the median shown as a black line. The highest and lowest recorded values are shown by lines connected by a dashed line, while circles represent outliers.

Standards for phosphate in UK rivers were introduced under the Water Framework Directive. Concentrations of less than 0.05 ppm represent clean water. Concentrations between 0.06 and 0.30 ppm indicate moderate water quality, while concentrations above 0.30 ppm indicate high phosphate levels, representing poor water quality that can lead to algal blooms and reduced dissolved oxygen levels.

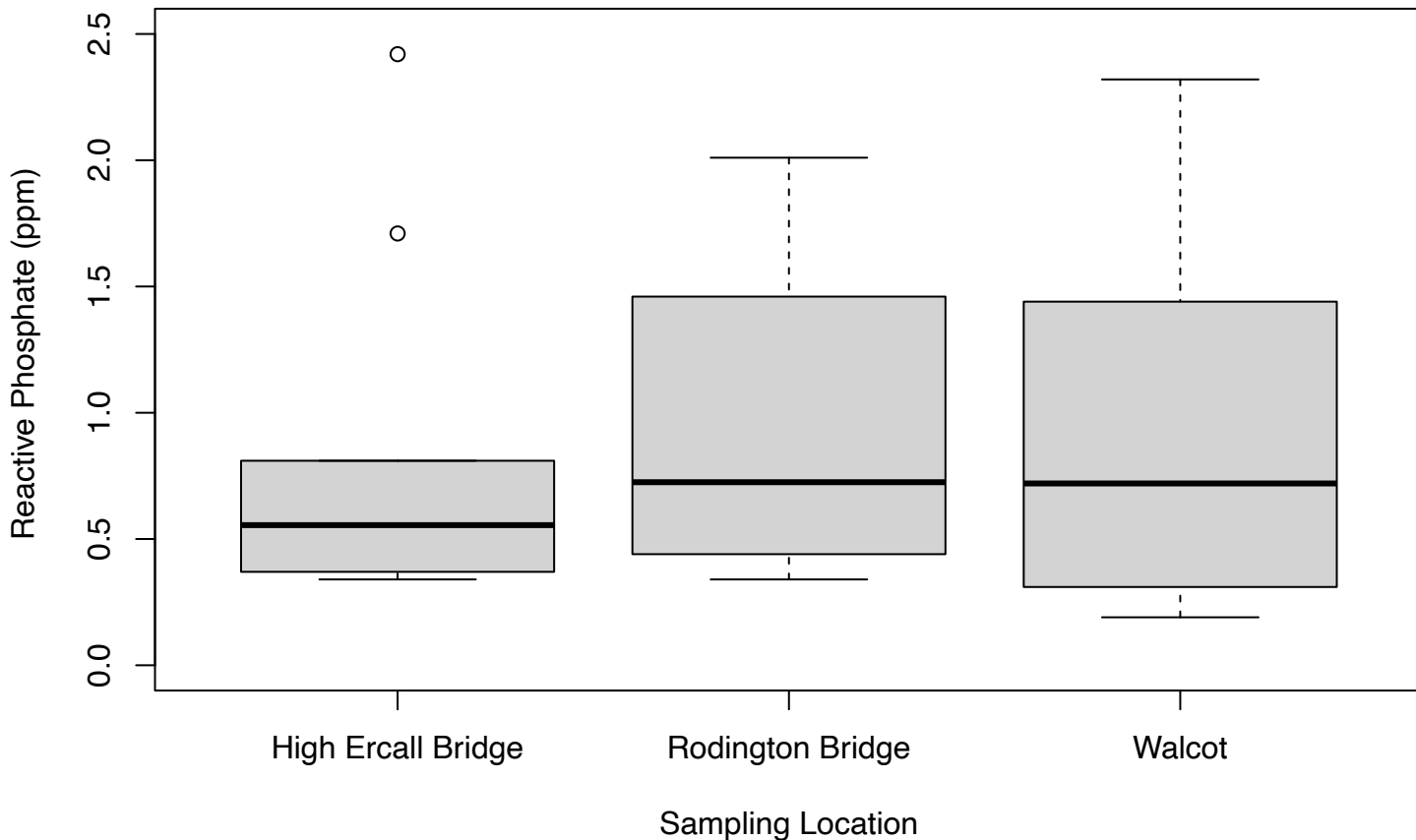
In our dataset, reactive phosphate concentrations were below 0.30 ppm in only two of the 69 samples analysed.

In summary, the monitoring indicates that the rivers flowing through the parish are of poor ecological quality and that water quality deteriorates as the rivers flow through the parish.

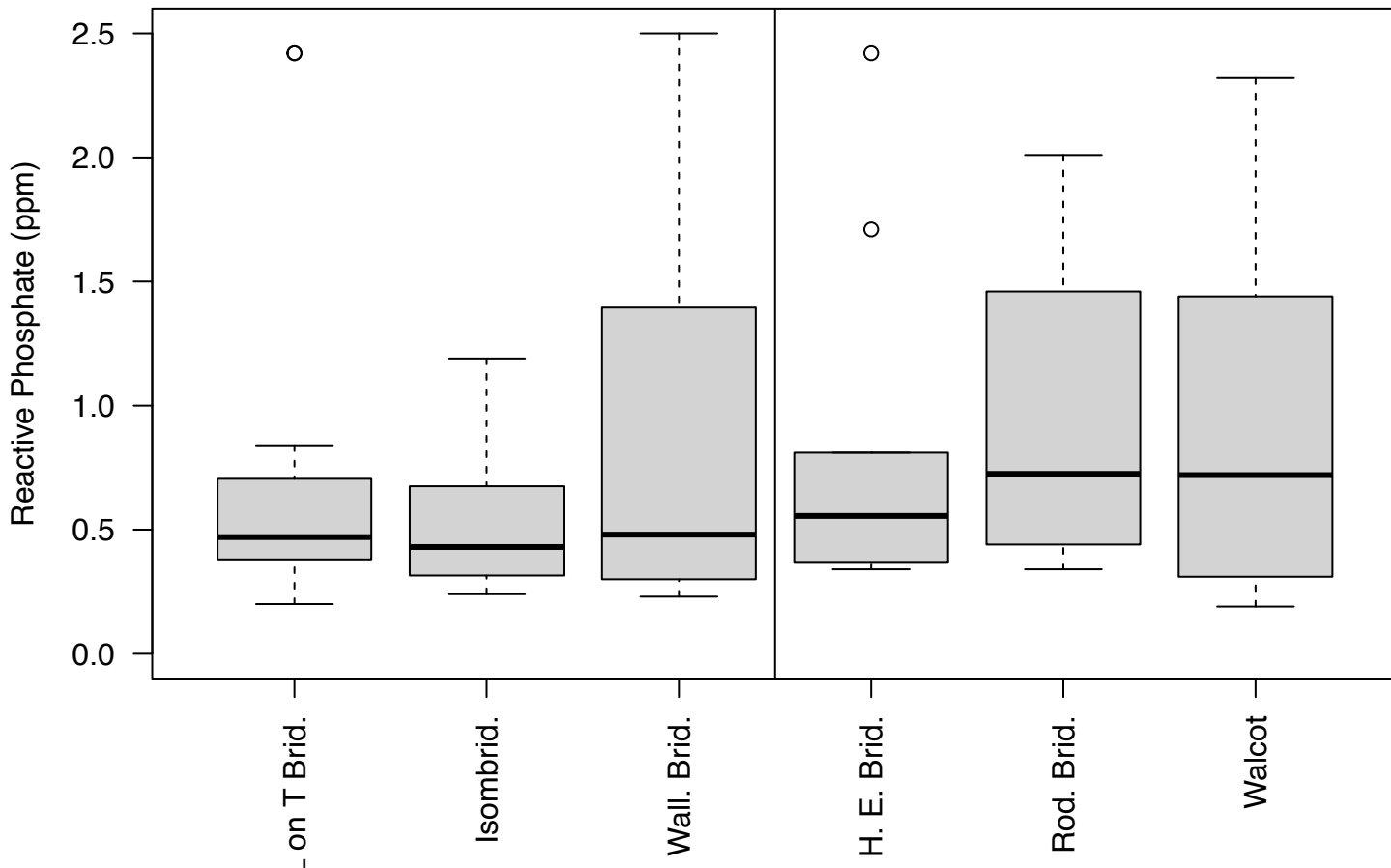
**Boxplot of phosphate levels on River Tern
2024–June 26 (11 sampling events)**



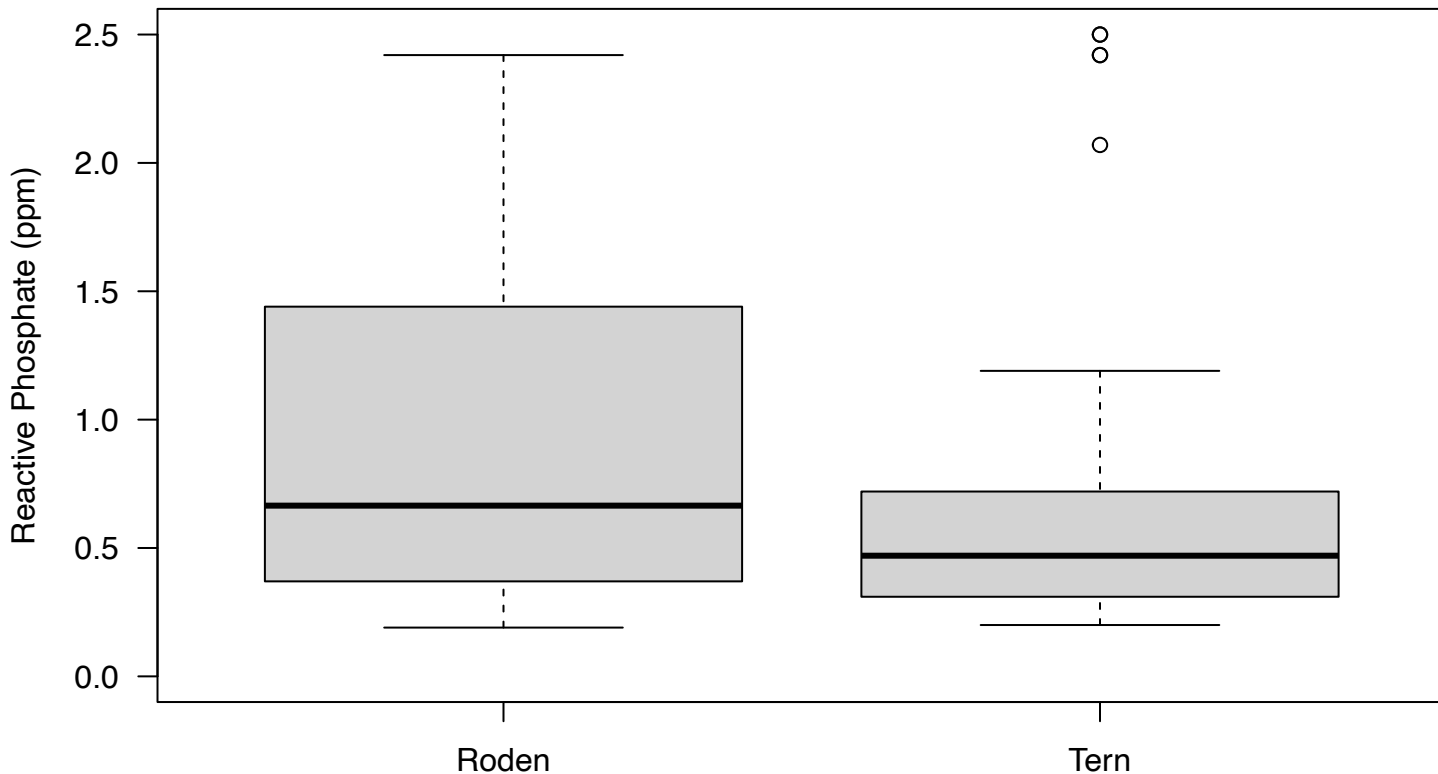
Boxplot of phosphate levels on River Roden 2024–June26 (10 sampling events)



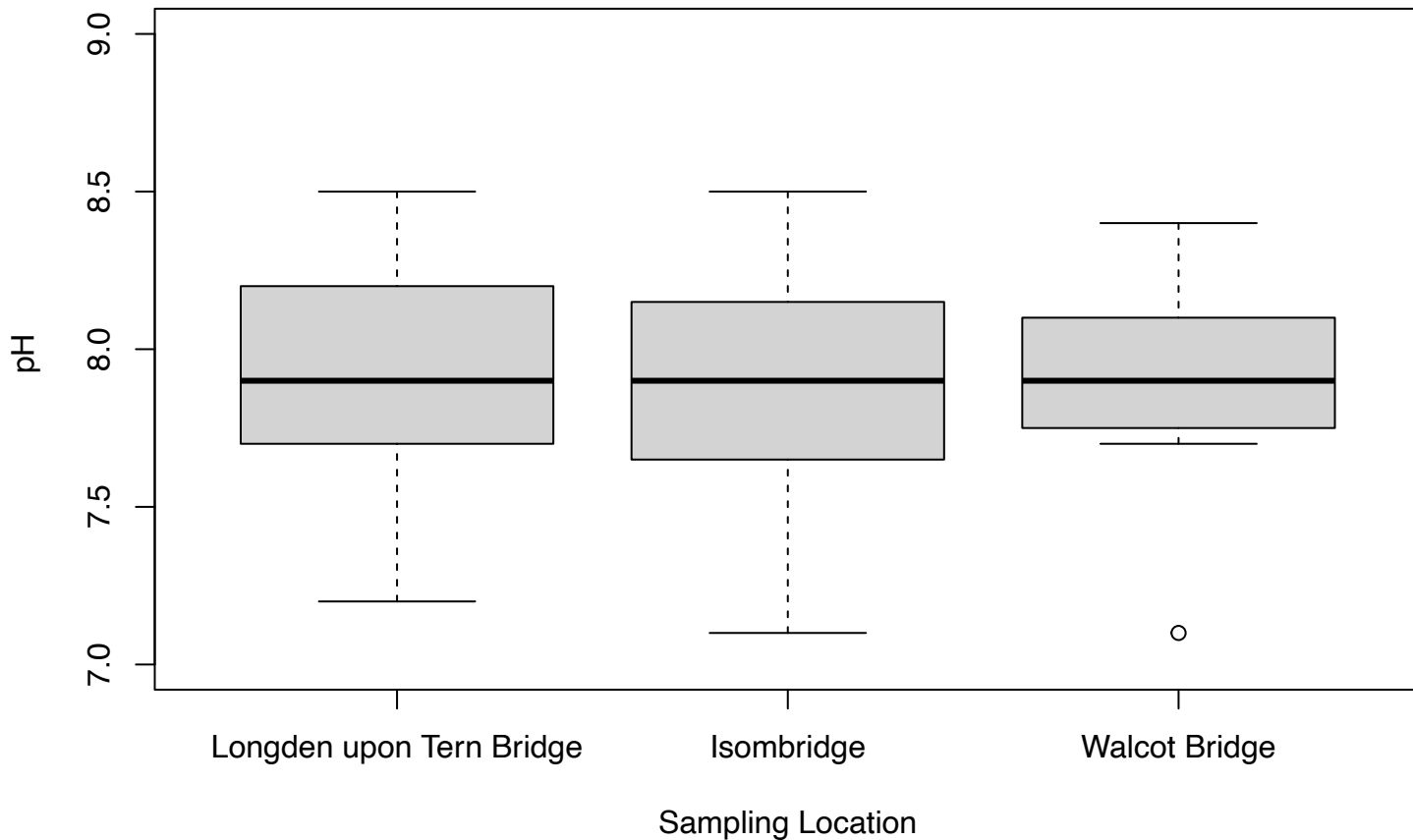
**Boxplot of Reactive Phosphate values recorded on rivers Tern & Roden
sampling points 2024–June 2026**



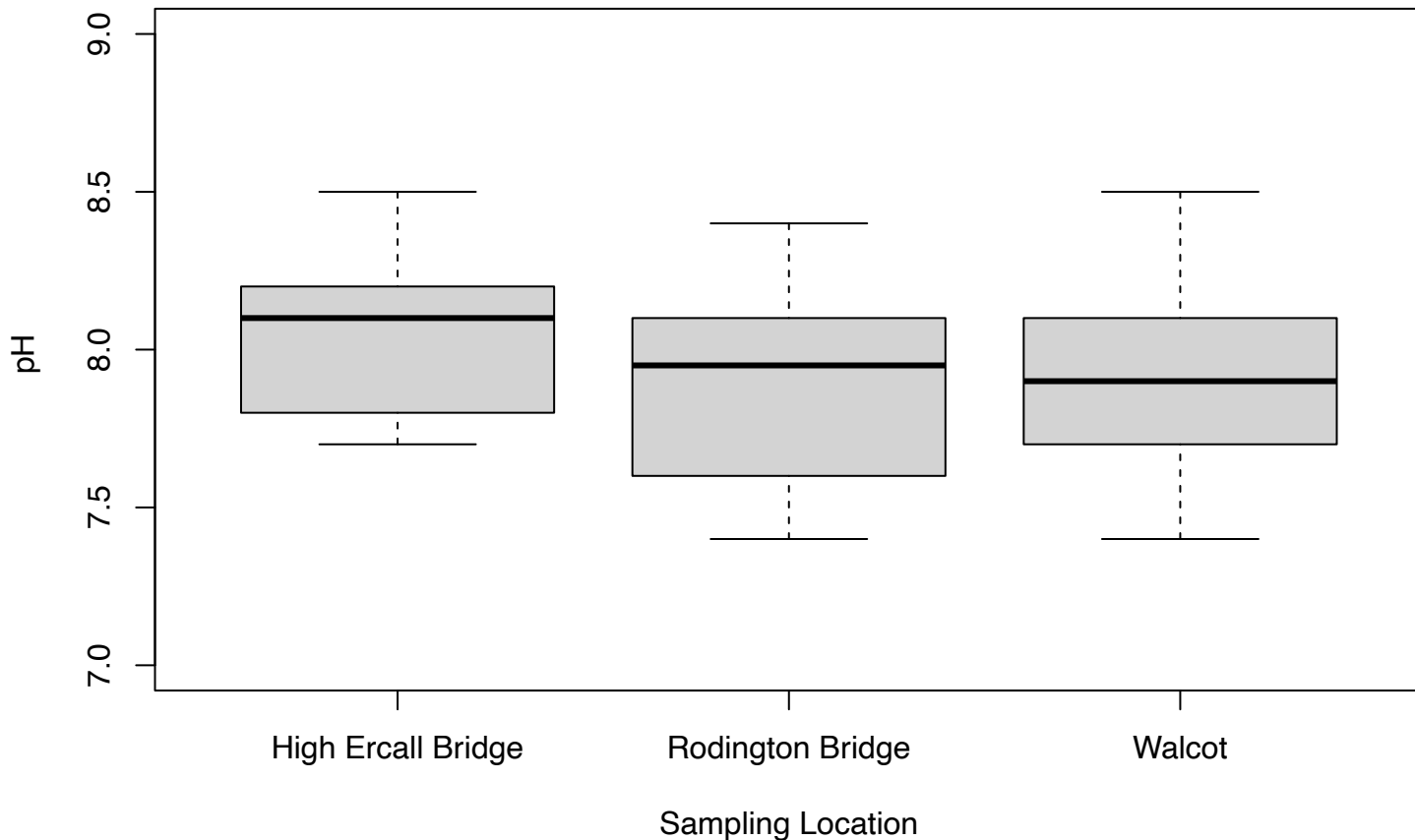
**Boxplot of all reactive phosphate data recorded on rivers
Roden & Tern 2024–June 2026**



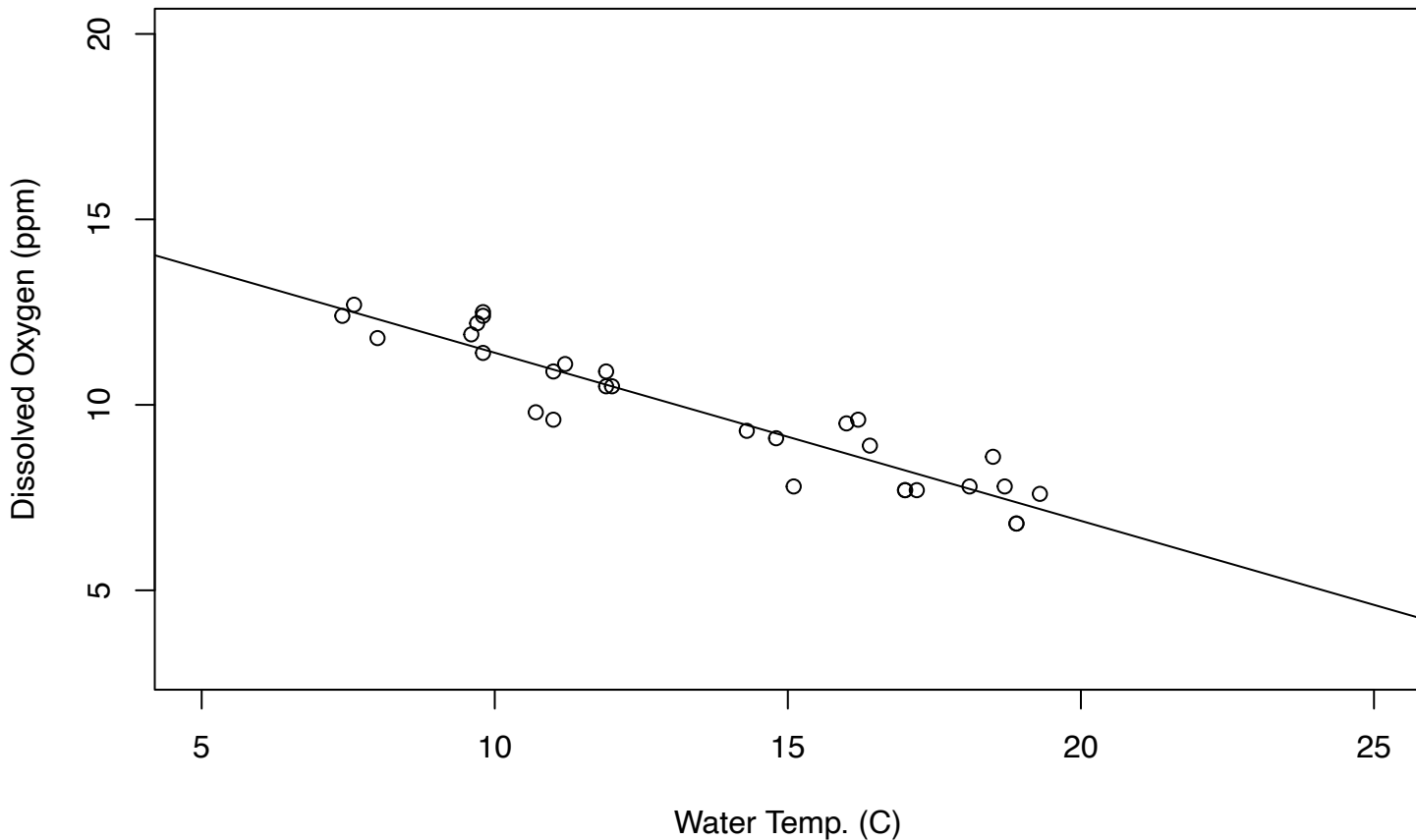
**Boxplot of pH values recorded on River Tern
2024–June 26**



**Boxplot of pH values recorded on River Roden
2024–26 (10 sampling events)**



Dissolved Oxygen vs. Water Temperature–River Roden 2024–June 26 (10 sampling events)



Dissolved Oxygen vs. Water Temperature–River Tern 2024–June 26 (11 sampling events)

