

SafeAvon Nutrient Testing Report: Whichford

SafeAvon Sites By Waterway

Stour River

. Whichford – Barrats Hill

SafeAvon Locations in Whichford

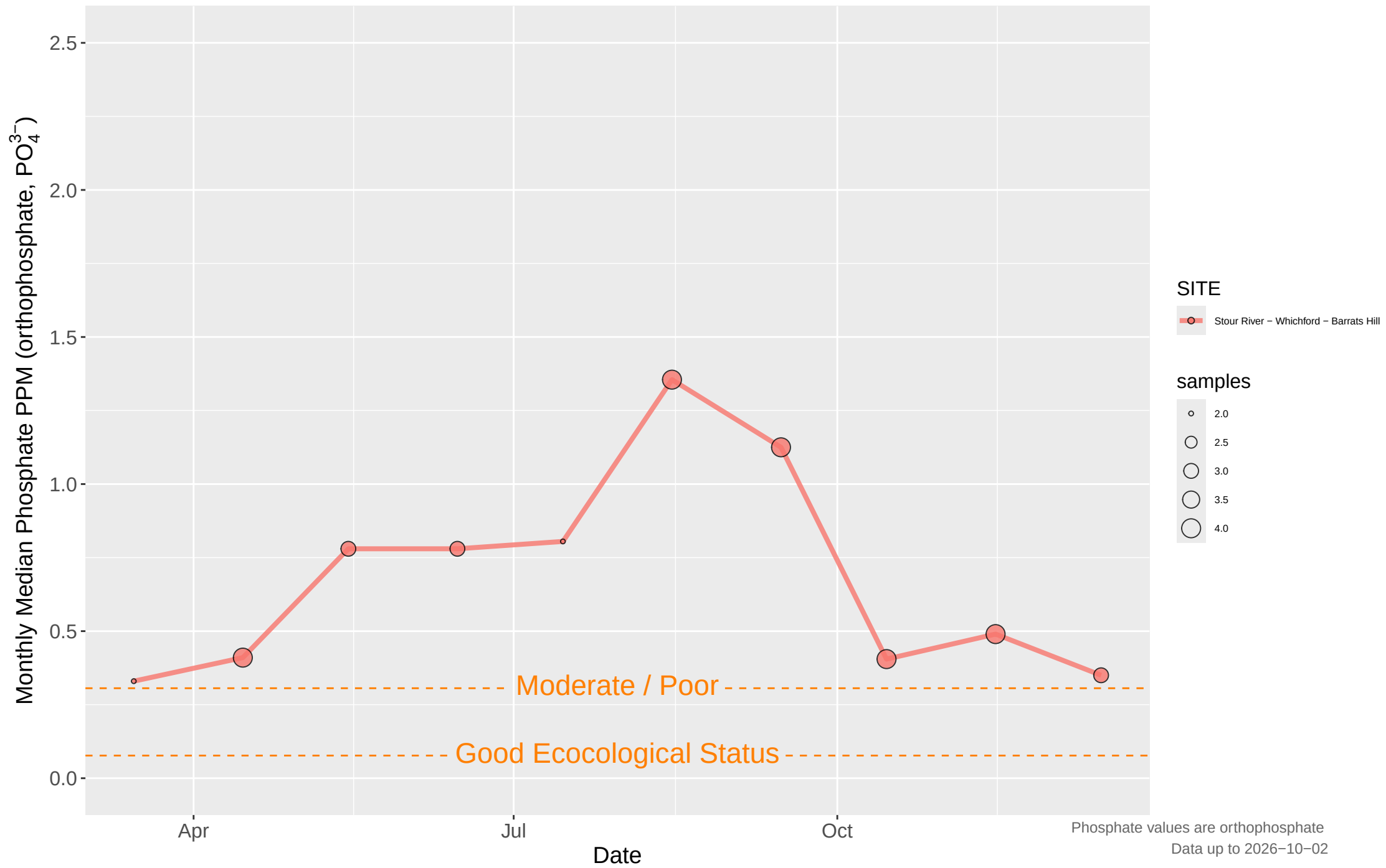


Summary for sites in Whichford

SITE	Start	Most Recent	Samples	Distinct Volunteers	Median Phosphates PPM	Median Nitrates PPM
Stour River – Whichford – Barrats Hill	2024-03-23	2024-12-14	33	1	0.54	2

SafeAvon Phosphates – By Month

Whichford



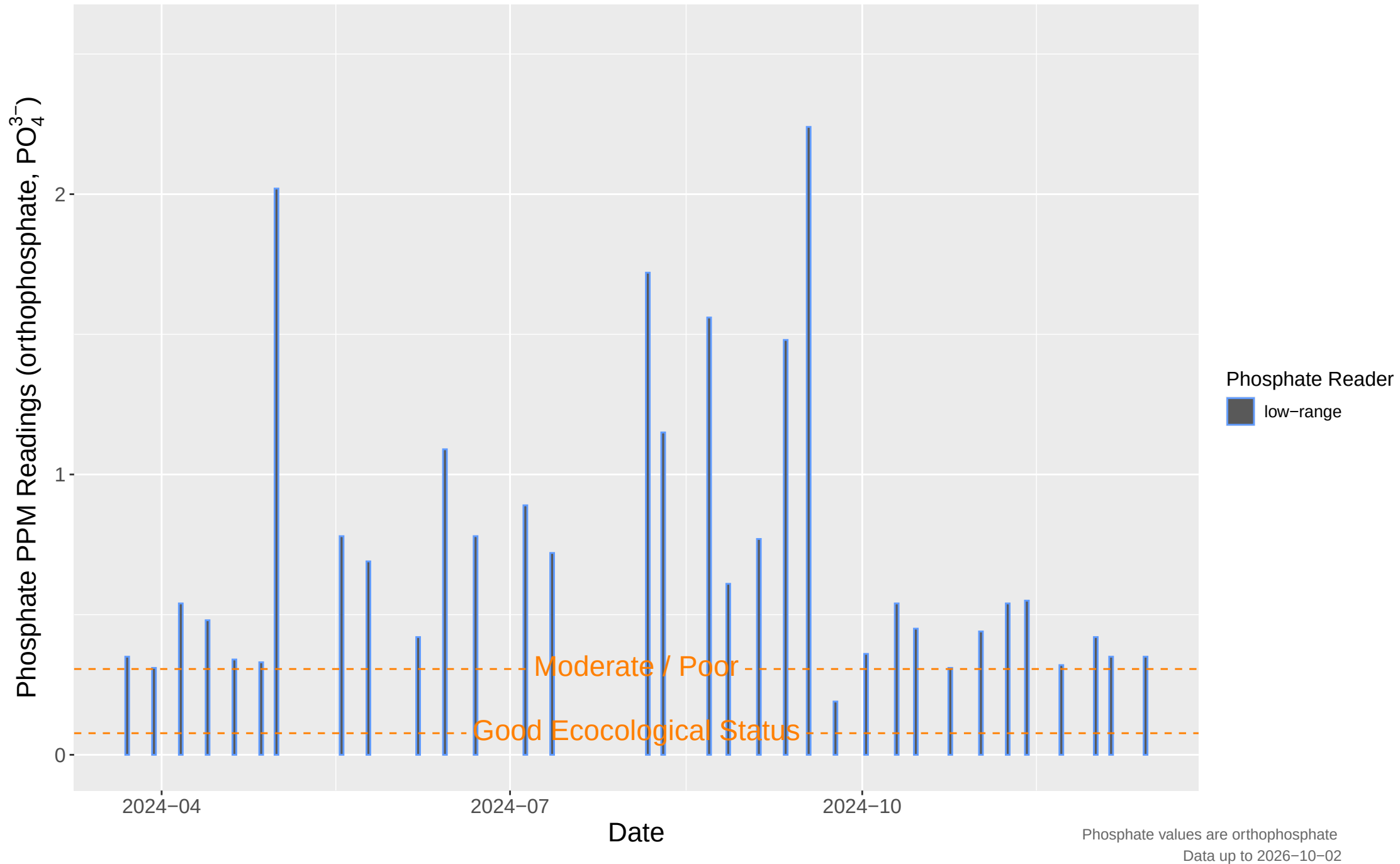
Site: Stour River – Whichford – Barrats Hill

Start Date: 2024-03-23 | Most Recent: 2024-12-14 | Total Samples: 33 | Distinct Volunteers: 1

Season	Count		Phos Min	Phos Med	Phos Max		Nitr Min	Nitr Med	Nitr Max		EC Min	EC Med	EC Max		Temp Min	Temp Med	Temp Max
Spring 24	9		0.31	0.48	2.02		1	2	5		509	593	656		9.2	12.8	17.5
Summer 24	9		0.42	0.89	1.72		2	2	2		101	662	718		11.3	16.1	17.5
Autumn 24	12		0.19	0.50	2.24		1	2	5		122	608	756		10.1	11.9	14.8
Winter 24-25	3		0.35	0.35	0.42		2	2	5		504	604	625		7.6	11.7	12.1

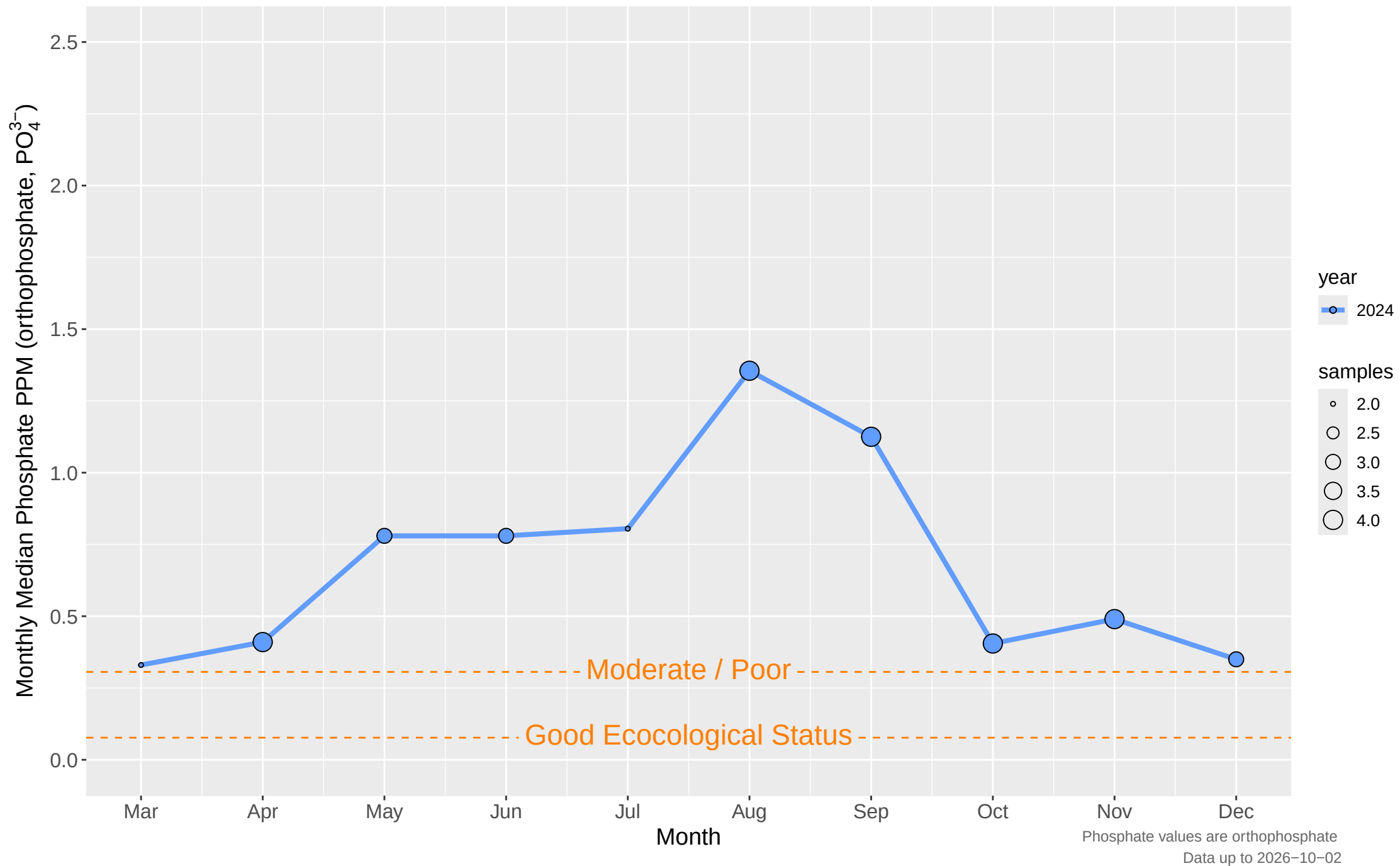
SafeAvon Phosphates – Individual Readings

Stour River – Whichford – Barrats Hill



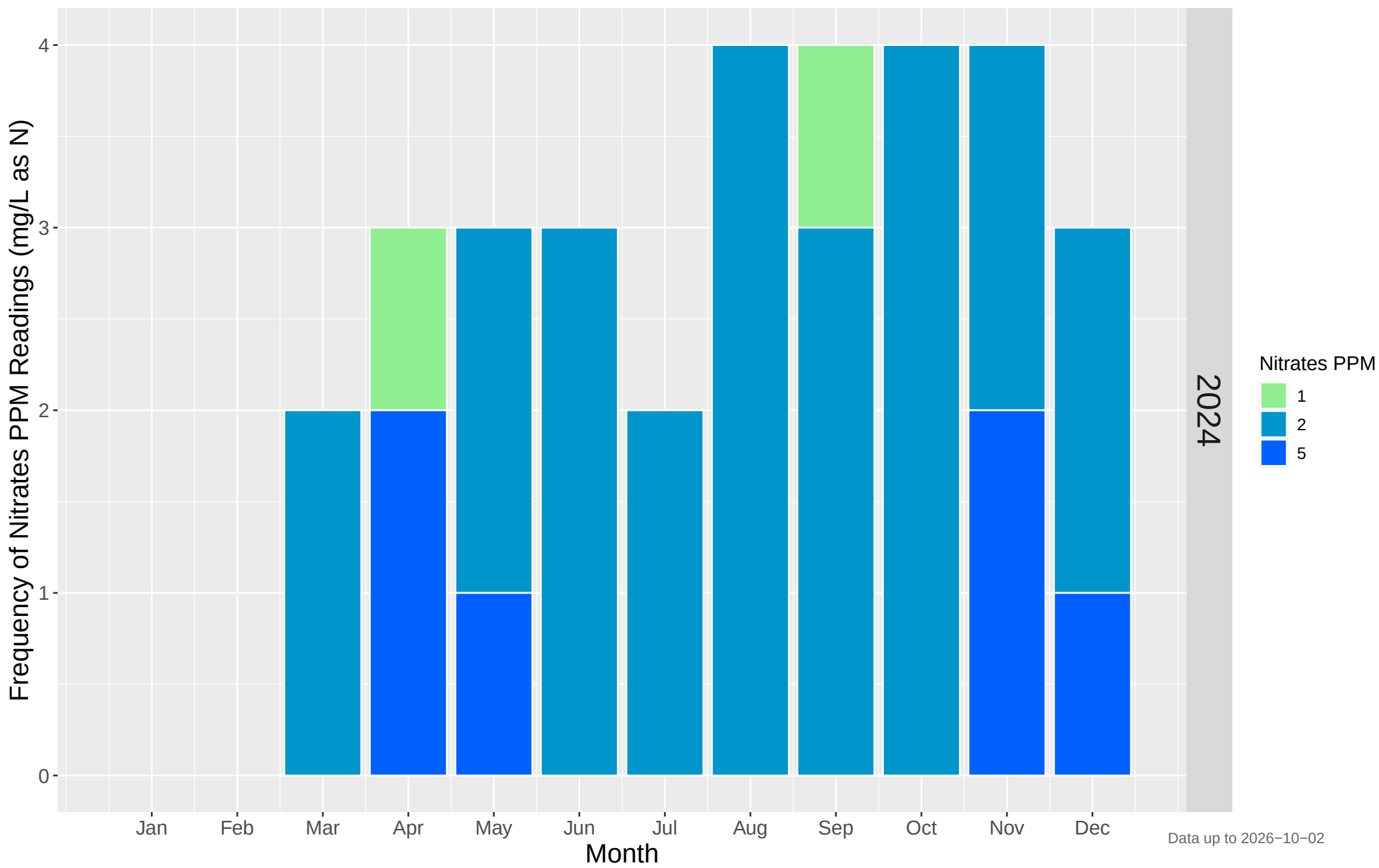
SafeAvon Phosphates – By Month

Stour River – Whichford – Barrats Hill



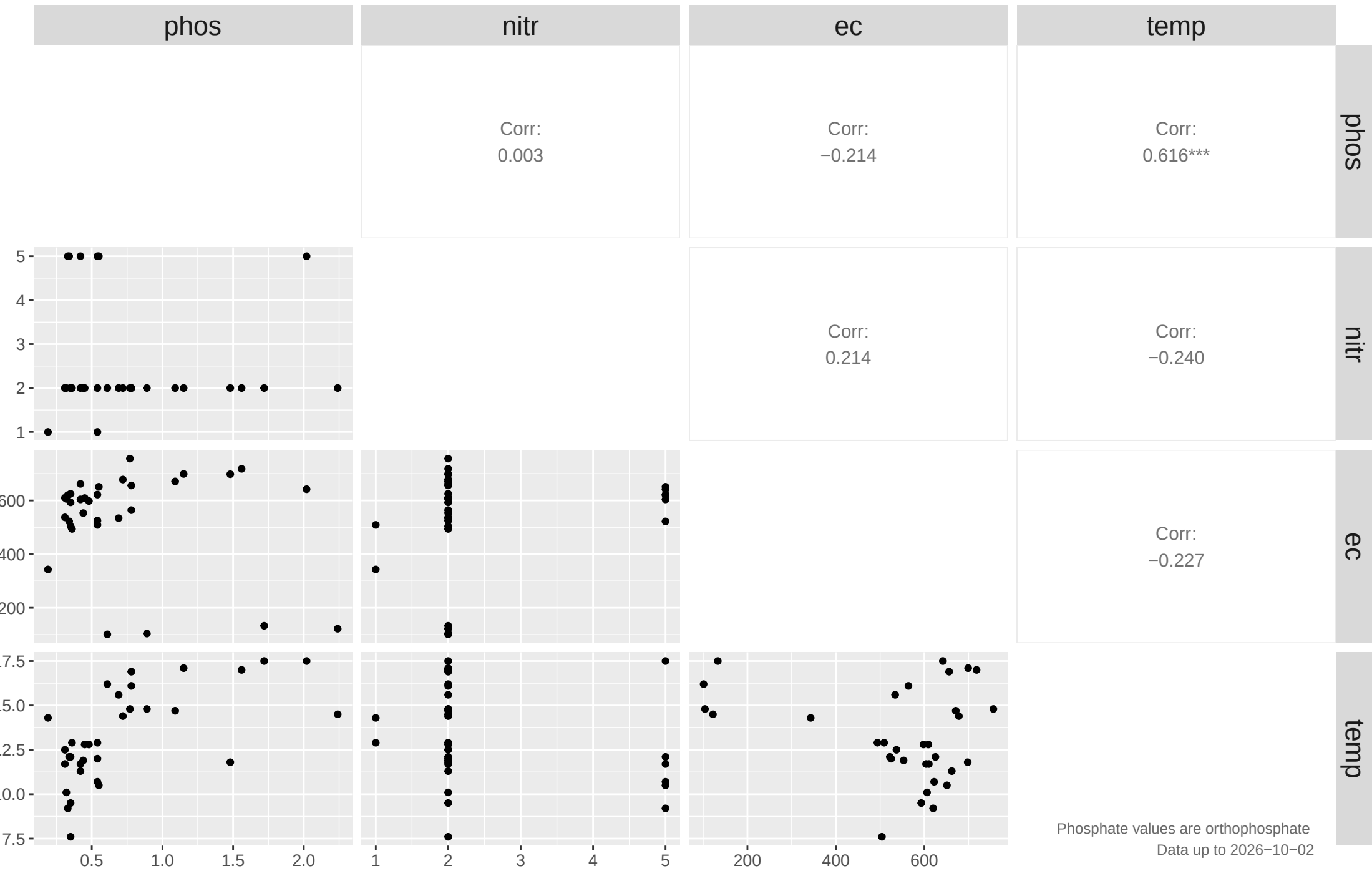
SafeAvon Nitrates By Month

Stour River – Whichford – Barrats Hill



Pairwise Testing Variables Relationships

Stour River – Whichford – Barrats Hill



Report Glossary & Interpretation Guide

Understanding the Charts

Pairwise Correlation Matrices

- . Valuation Scale (–1 to +1): Quantifies correlation between variables.
- (+1) Perfect Positive Correlation: Variables track each other; if one scales up, the other increases.
- (0) No Correlation: Variable movements appear independent.
- (–1) Perfect Negative Correlation: Variables track inversely; when one scales up, the other drops.
- . Practical Application: If a pair of variables have a correlation approaching 1, it demonstrates that typically on any given sample, these values are likely to be strongly correlated. This indicates they may share similar sources and/or similar ways of exiting out into the watercourse.

Ecological Threshold Frameworks

Phosphate Status (Orthophosphate, PO₄^{3–})

- Monitored using Hanna pocket checker:
- . High Status: $x < 0.077$ PPM
 - . Good Ecological Status: $0.077 \leq x \leq 0.306$ PPM
 - . Moderate / Poor Ecological Status: $x > 0.306$ PPM

Nitrate Levels (Nitrate-as-N)

- Monitored using WaterWorks/Hach Nitrate kit:
- . Natural Levels: $x < 1.0$ PPM
 - . Elevated Levels: $1.0 \leq x < 5.0$ PPM
 - . Excessive Levels: $x \geq 5.0$ PPM

Data Access

Data pulled from EpiCollect API.
Full dataset accessible via SafeAvon website
which has links to EpiCollect and the Google Sheet.
URL: https://safeavon.org.uk/?page_id=151