

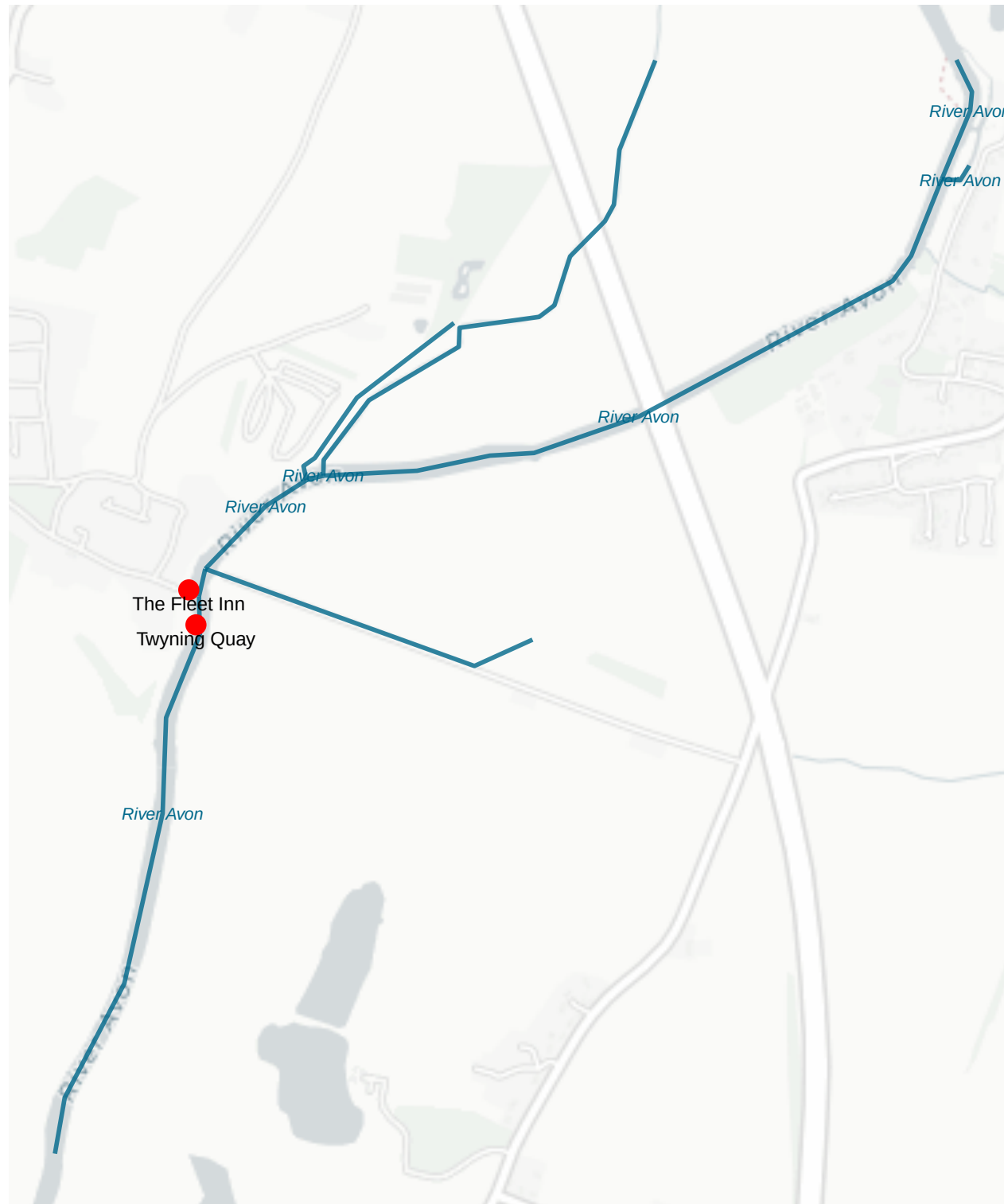
SafeAvon Nutrient Testing Report: Twyning Green

SafeAvon Sites By Waterway

Avon River

- . Twyning Green – The Fleet Inn
- . Twyning Green – Twyning Quay

SafeAvon Locations in Twynning Green

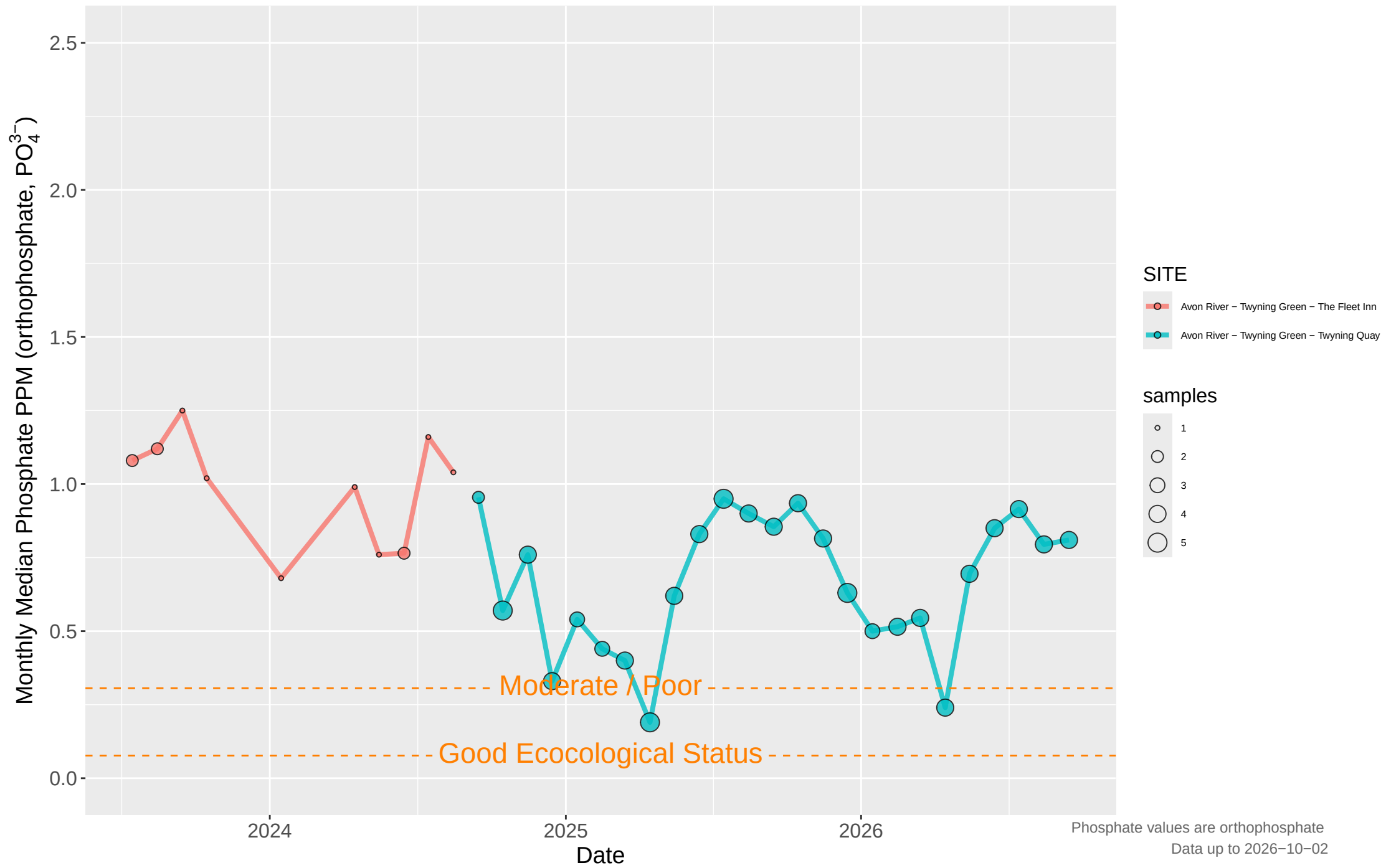


Summary for sites in Twyning Green

SITE	Start	Most Recent	Samples	Distinct Volunteers	Median Phosphates PPM	Median Nitrates PPM
Avon River – Twyning Green – Twyning Quay	2024-09-18	2026-09-29	99	3	0.70	10
Avon River – Twyning Green – The Fleet Inn	2023-07-11	2024-08-17	13	2	1.02	10

SafeAvon Phosphates – By Month

Twynning Green



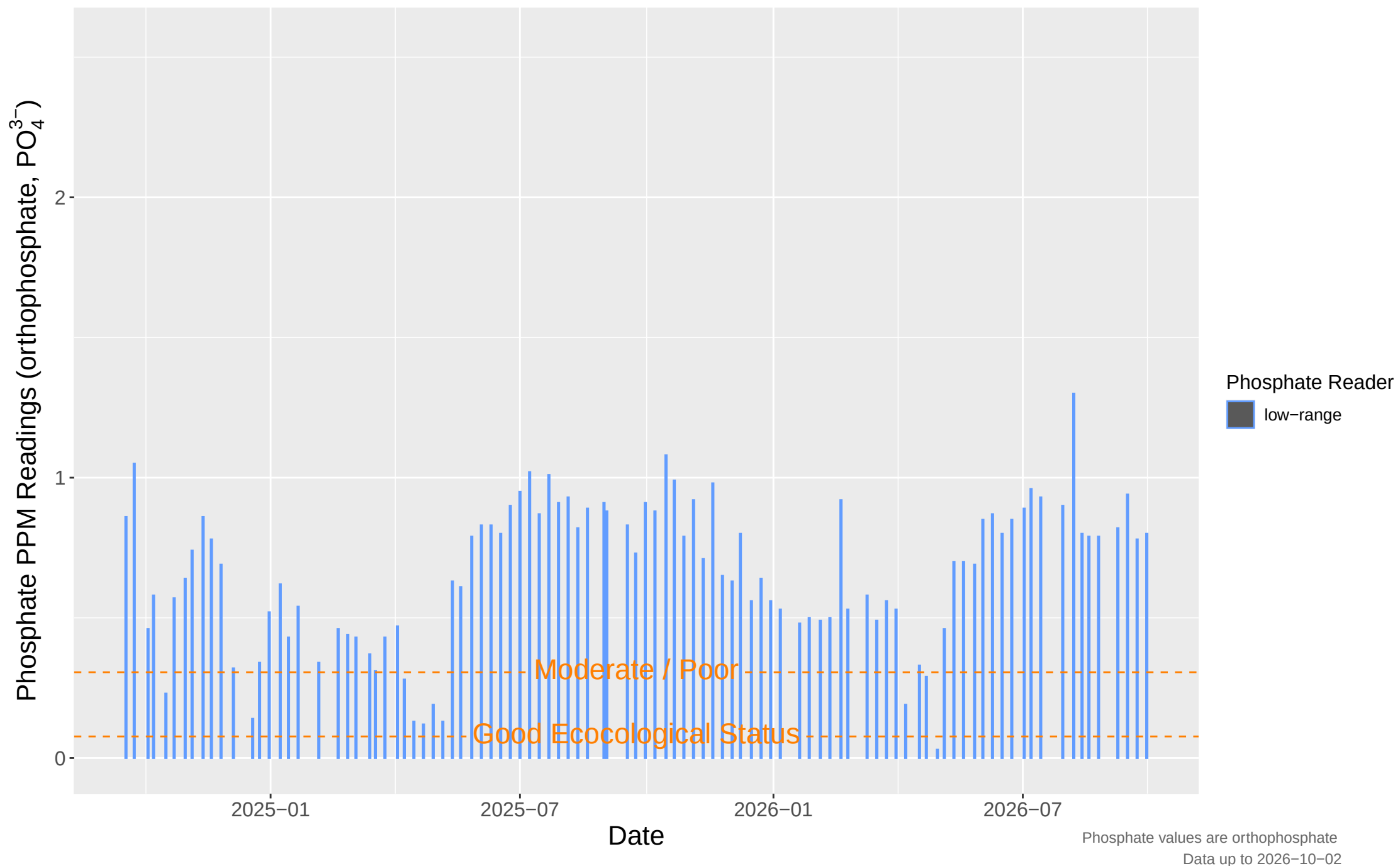
Site: Avon River – Twyning Green – Twyning Quay

Start Date: 2024-09-18 | Most Recent: 2026-09-29 | Total Samples: 99 | Distinct Volunteers: 3

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
Autumn 24	11		0.23	0.69	1.05		5	10	20		425	731	972		9.5	13.6	17.6
Winter 24-25	10		0.14	0.44	0.62		5	10	10		324	730	850		4.4	8.2	10.1
Spring 25	13		0.12	0.37	0.79		5	10	20		723	955	1100		8.8	14.0	18.2
Summer 25	13		0.80	0.90	1.02		5	10	20		707	1020	1120		17.1	21.1	25.8
Autumn 25	12		0.65	0.88	1.08		10	10	20		580	972	1140		8.8	14.2	18.9
Winter 25-26	12		0.48	0.54	0.92		5	10	20		49	626	850		4.9	10.0	11.6
Spring 26	12		0.03	0.51	0.70		5	10	10		685	934	1020		9.8	14.2	21.1
Summer 26	12		0.79	0.86	1.30		5	10	20		110	972	1150		17.6	22.5	25.9
Autumn 26	4		0.78	0.81	0.94		10	10	10		832	963	984		18.5	18.9	19.3

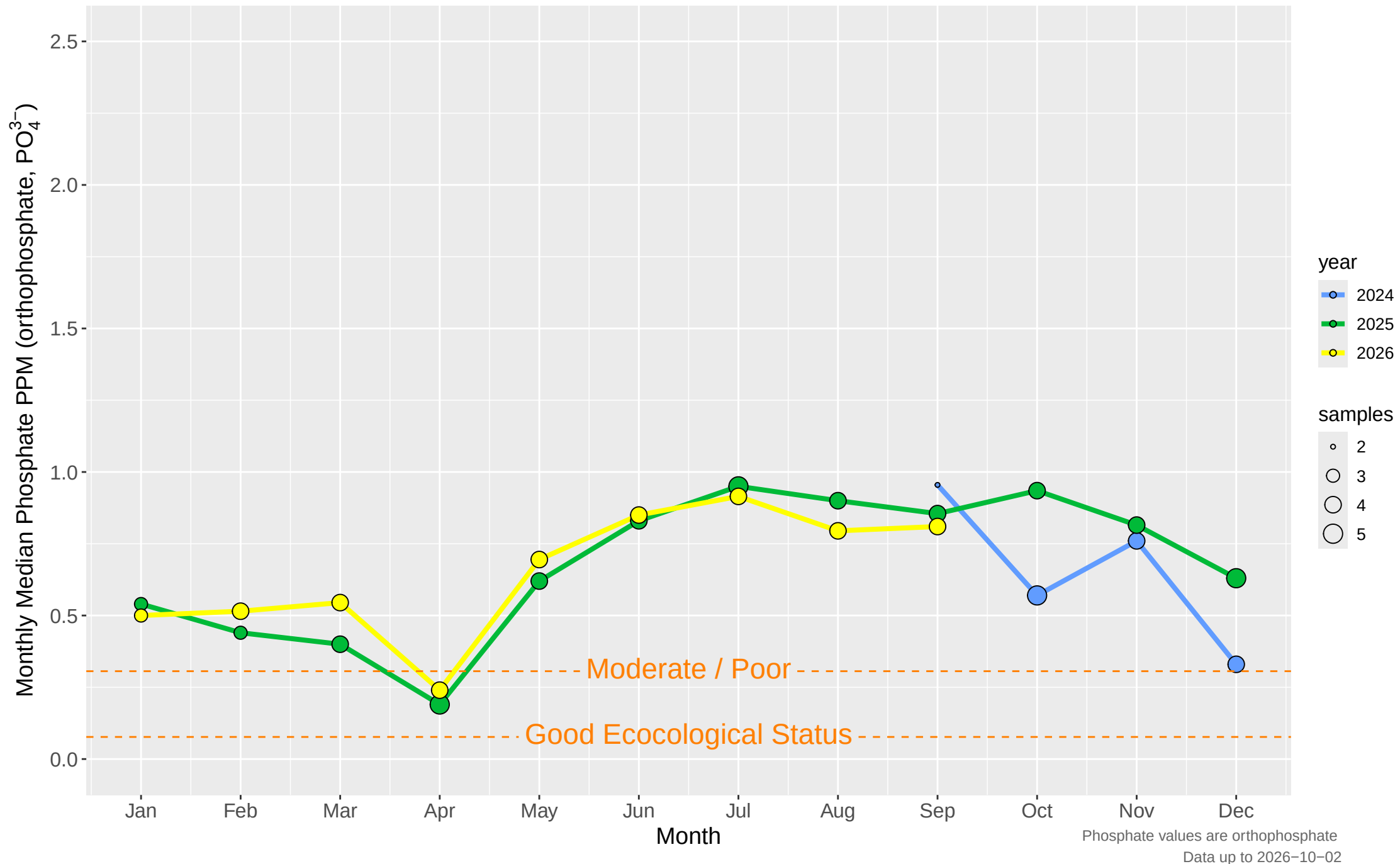
SafeAvon Phosphates – Individual Readings

Avon River – Twynning Green – Twynning Quay



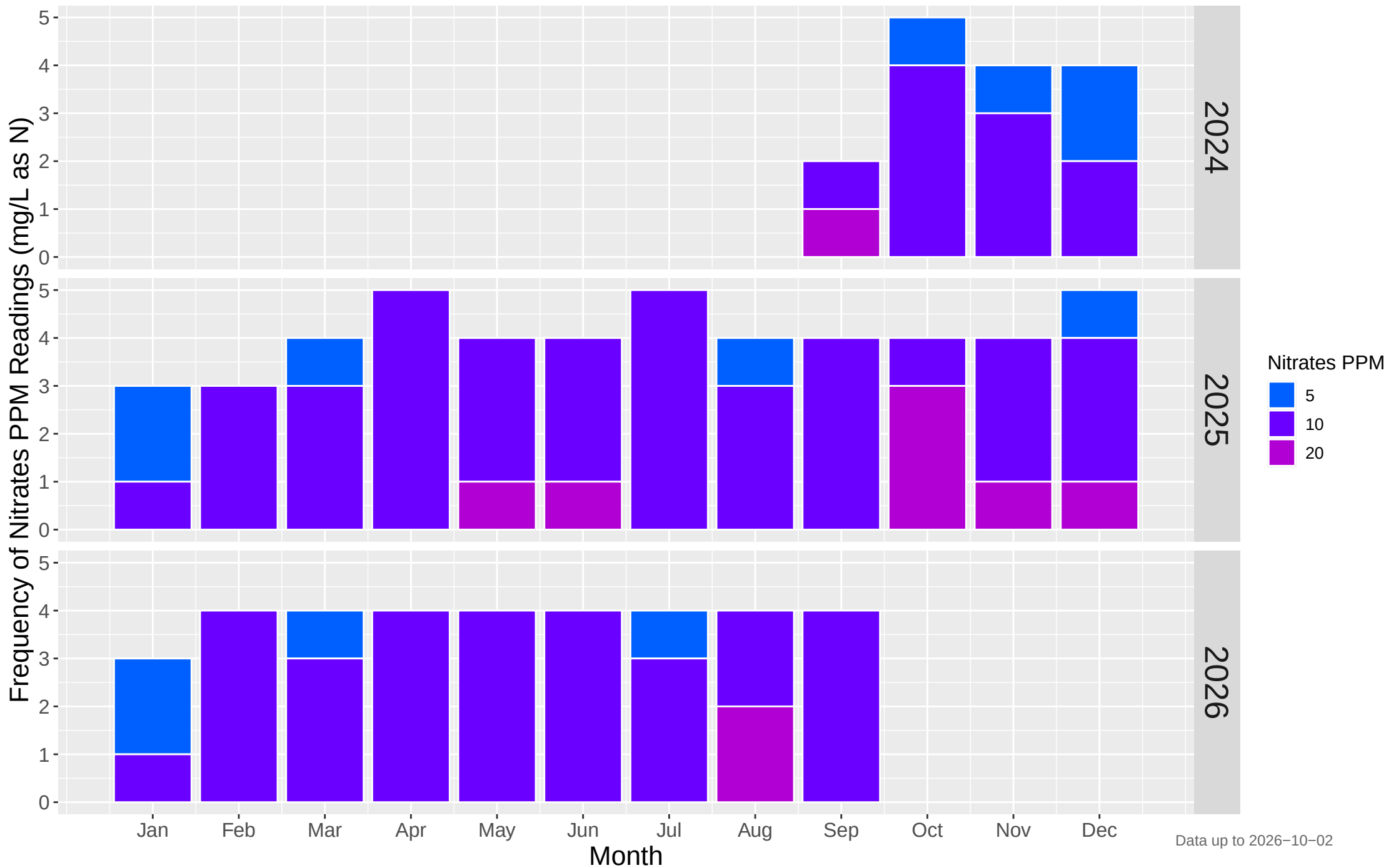
SafeAvon Phosphates – By Month

Avon River – Twynning Green – Twynning Quay



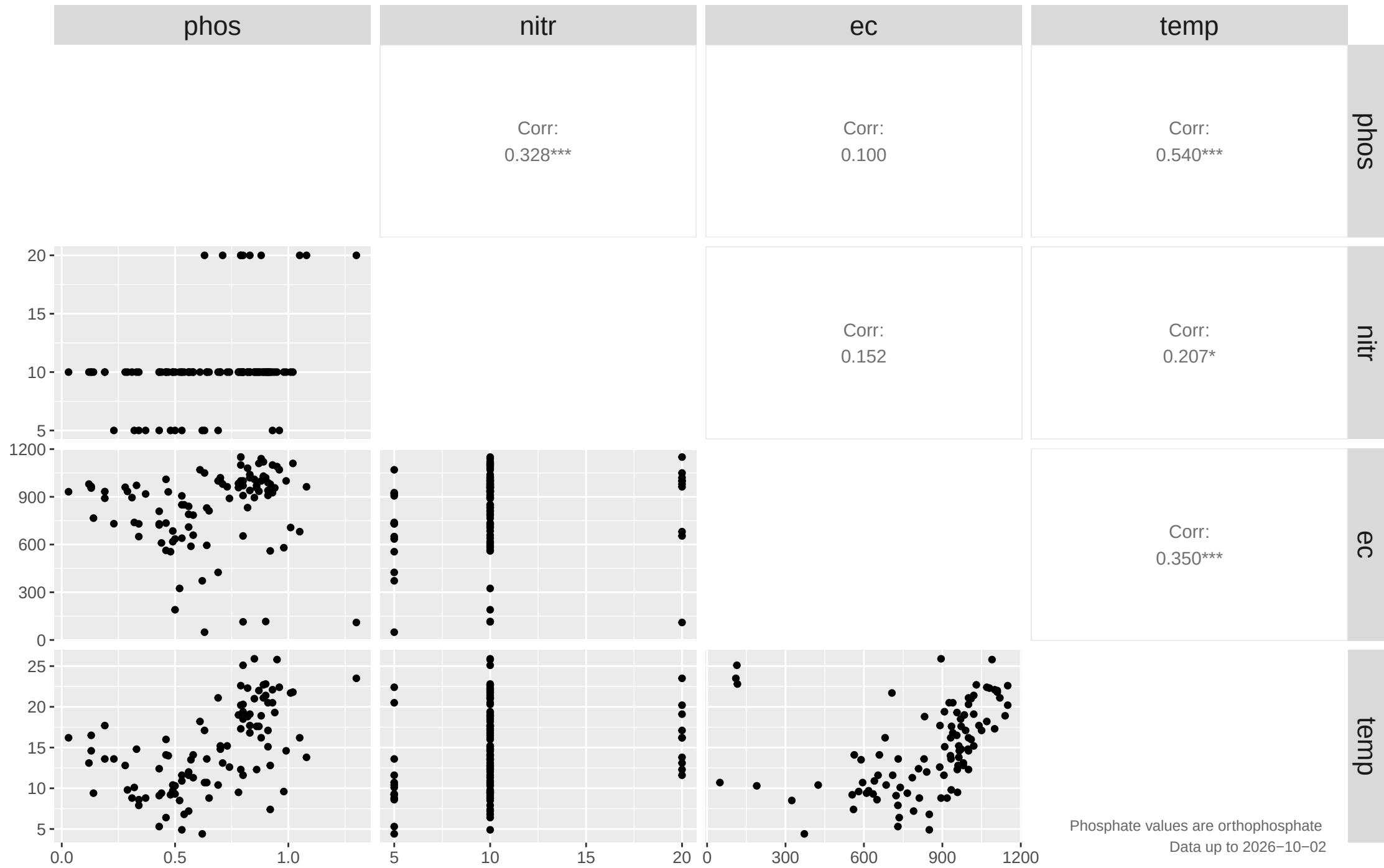
SafeAvon Nitrates By Month

Avon River – Twynning Green – Twynning Quay



Pairwise Testing Variables Relationships

Avon River – Twyning Green – Twyning Quay



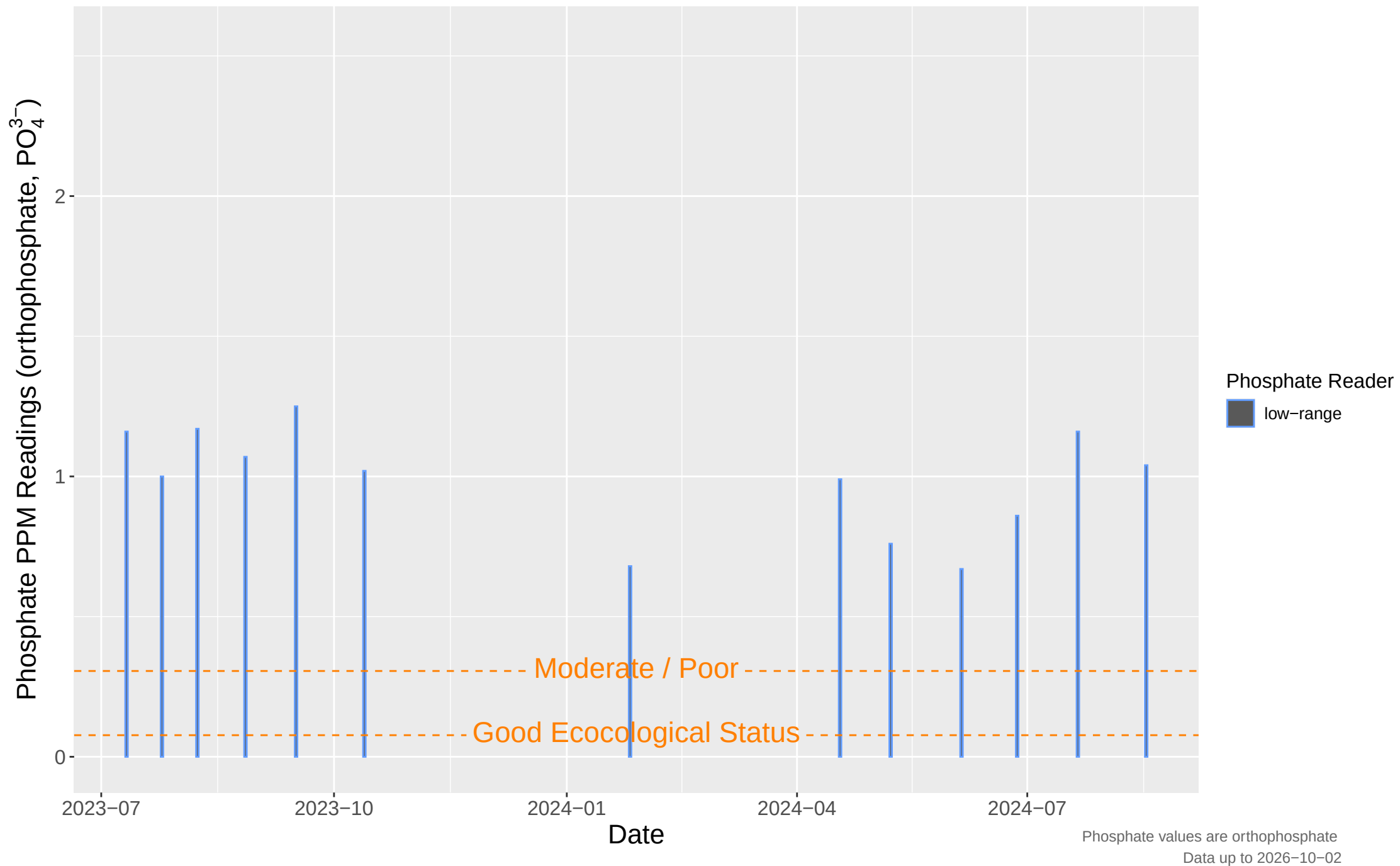
Site: Avon River – Twyning Green – The Fleet Inn

Start Date: 2023-07-11 | Most Recent: 2024-08-17 | Total Samples: 13 | Distinct Volunteers: 2

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
Summer 23	4		1.00	1.11	1.17		10	10	20		905	926	1010		18.4	19.4	20.4
Autumn 23	2		1.02	1.14	1.25		10	10	10		1010	1010	1010		17.6	18.7	19.8
Winter 23-24	1		0.68	0.68	0.68		2	2	2		1580	1580	1580		10.4	10.4	10.4
Spring 24	2		0.76	0.88	0.99		5	5	5		7380	7825	8270		13.6	15.9	18.3
Summer 24	4		0.67	0.95	1.16		5	5	10		1000	8795	9120		17.8	20.9	23.3

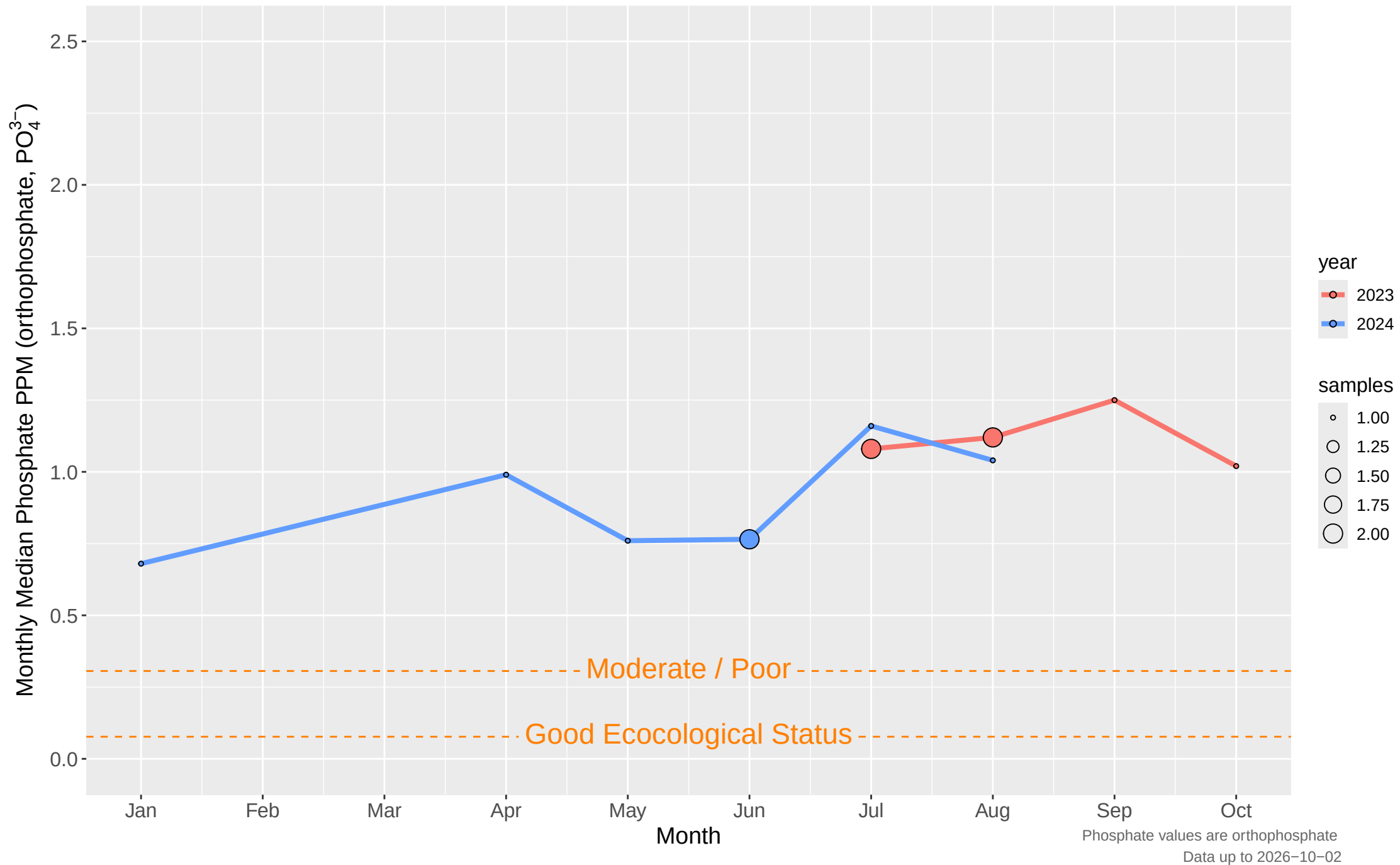
SafeAvon Phosphates – Individual Readings

Avon River – Twynning Green – The Fleet Inn



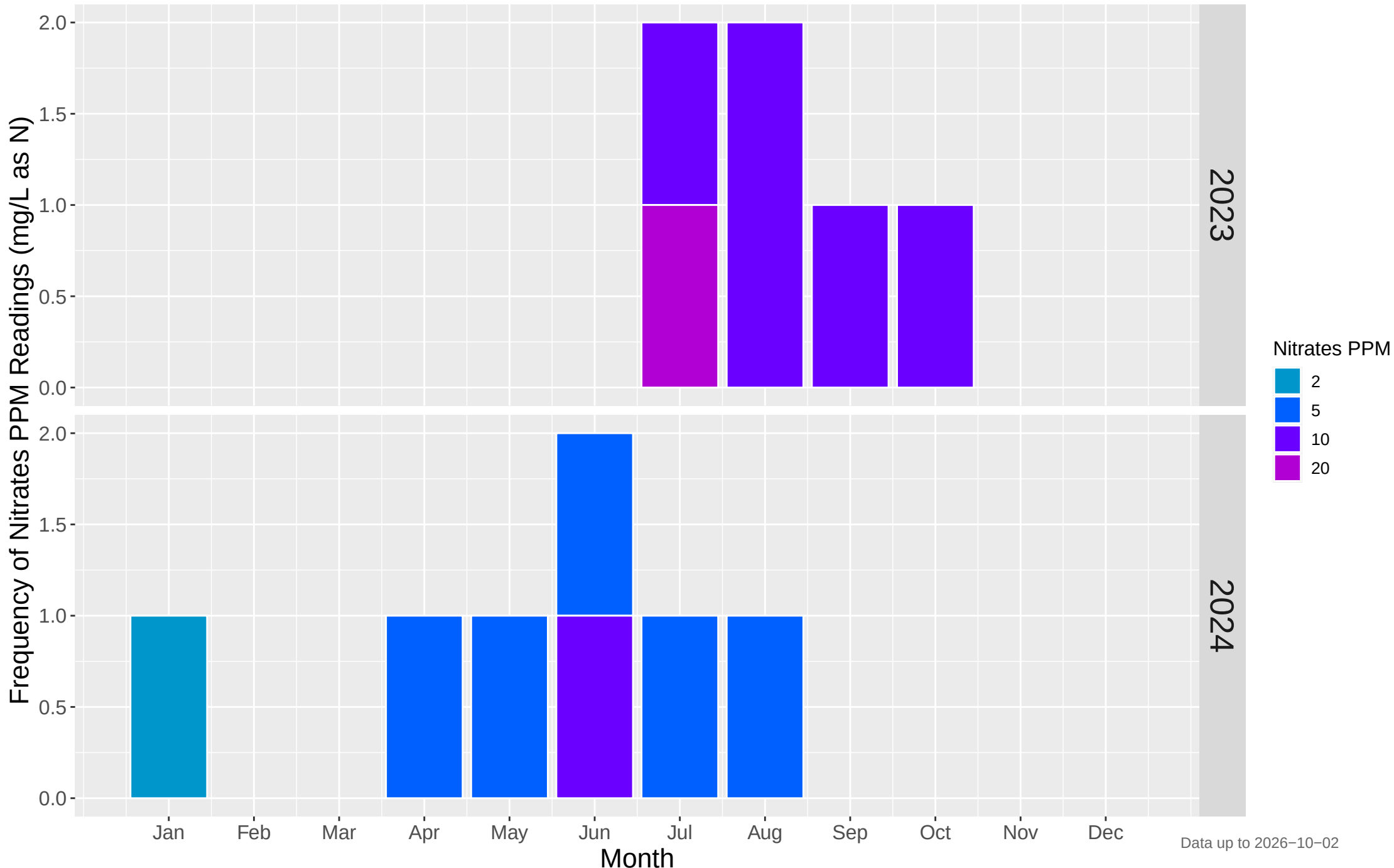
SafeAvon Phosphates – By Month

Avon River – Twynning Green – The Fleet Inn



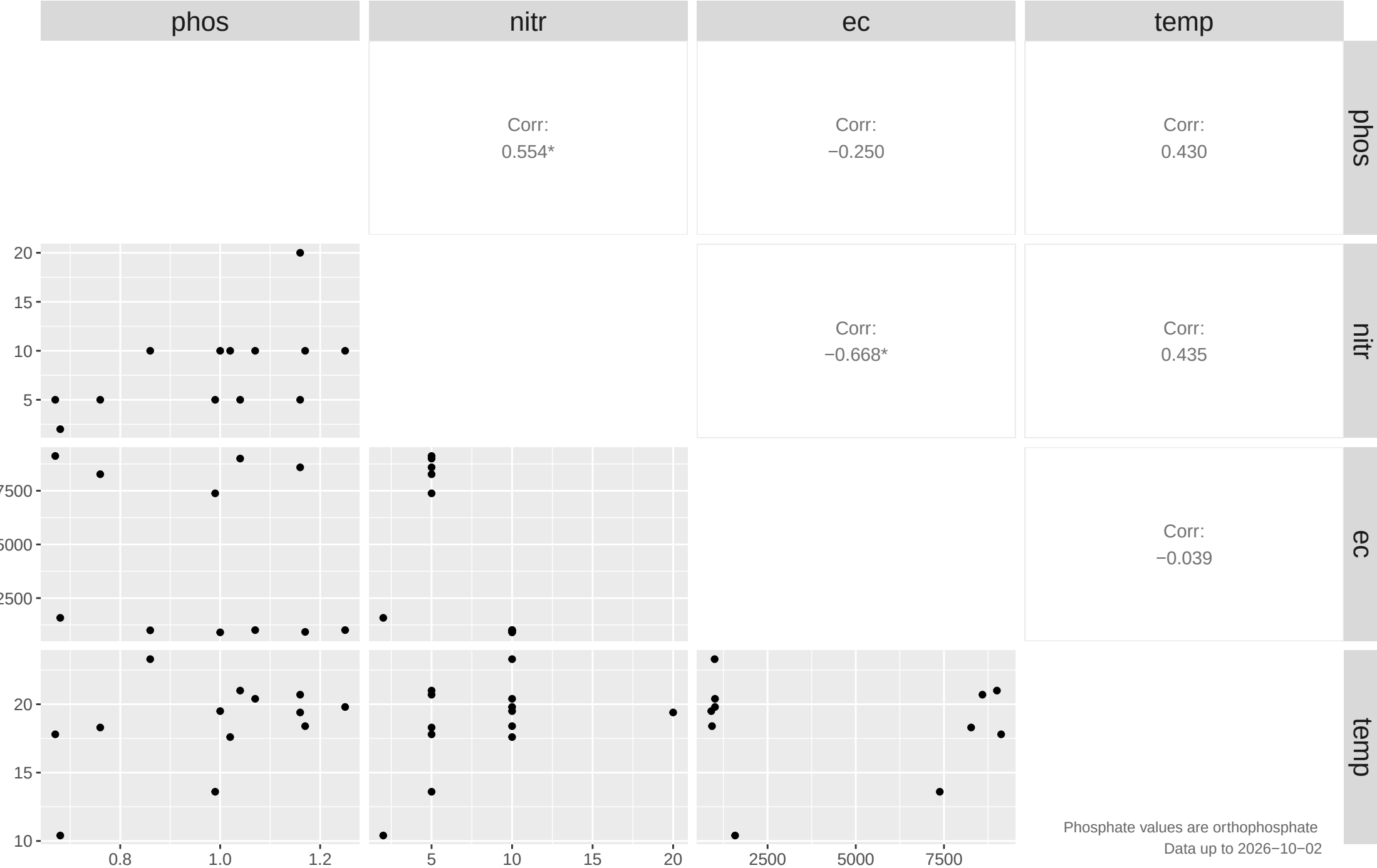
SafeAvon Nitrates By Month

Avon River – Twyning Green – The Fleet Inn



Pairwise Testing Variables Relationships

Avon River – Twyning Green – The Fleet Inn



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–)

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