

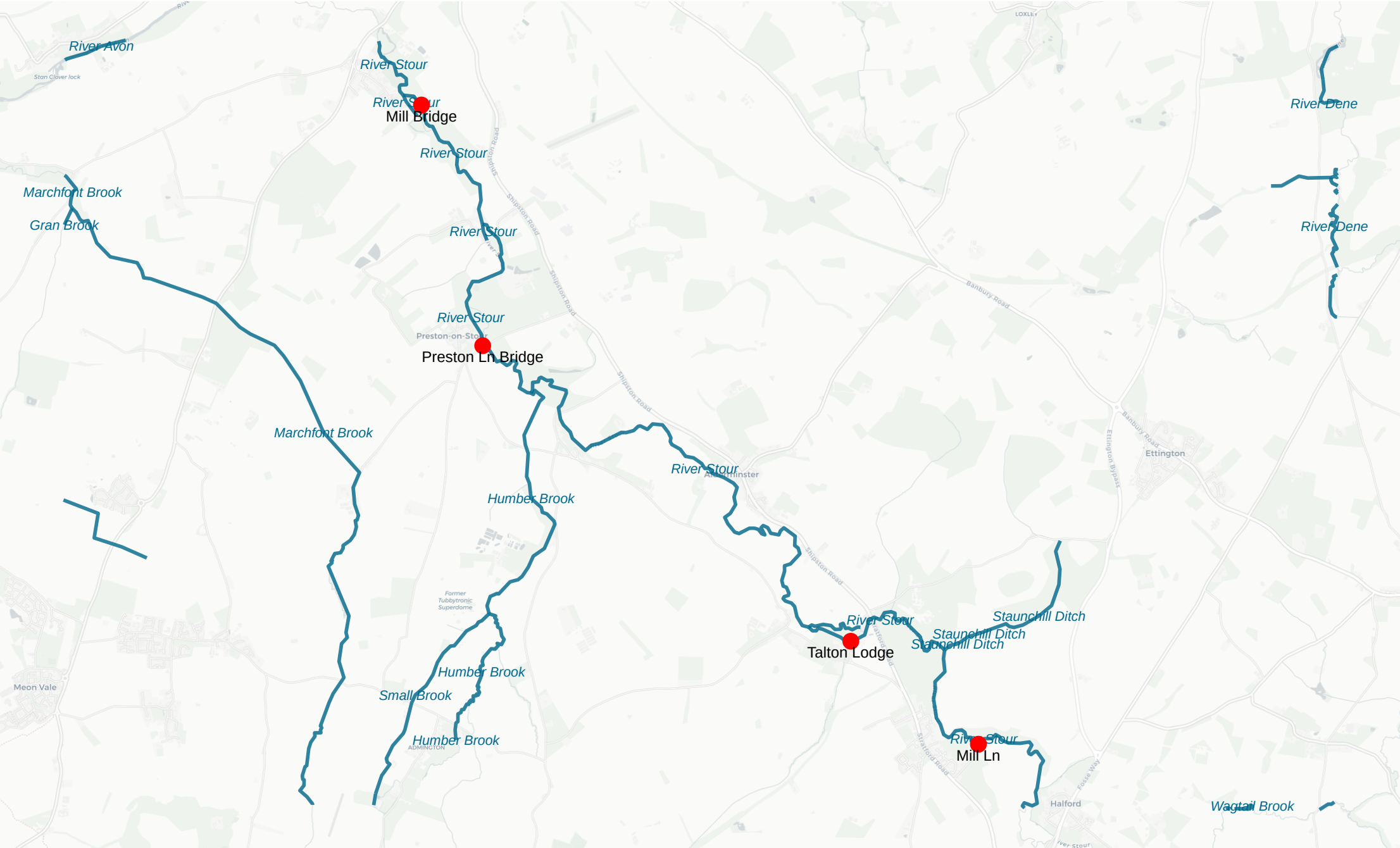
SafeAvon Nutrient Testing Report: Lower Stour

SafeAvon Sites By Waterway

Stour River

- . Clifford Chambers – Mill Bridge
- . Newbold on Stour – Mill Ln
- . Newbold on Stour – Talton Lodge
- . Preston on Stour – Preston Ln Bridge

SafeAvon Locations in Lower Stour

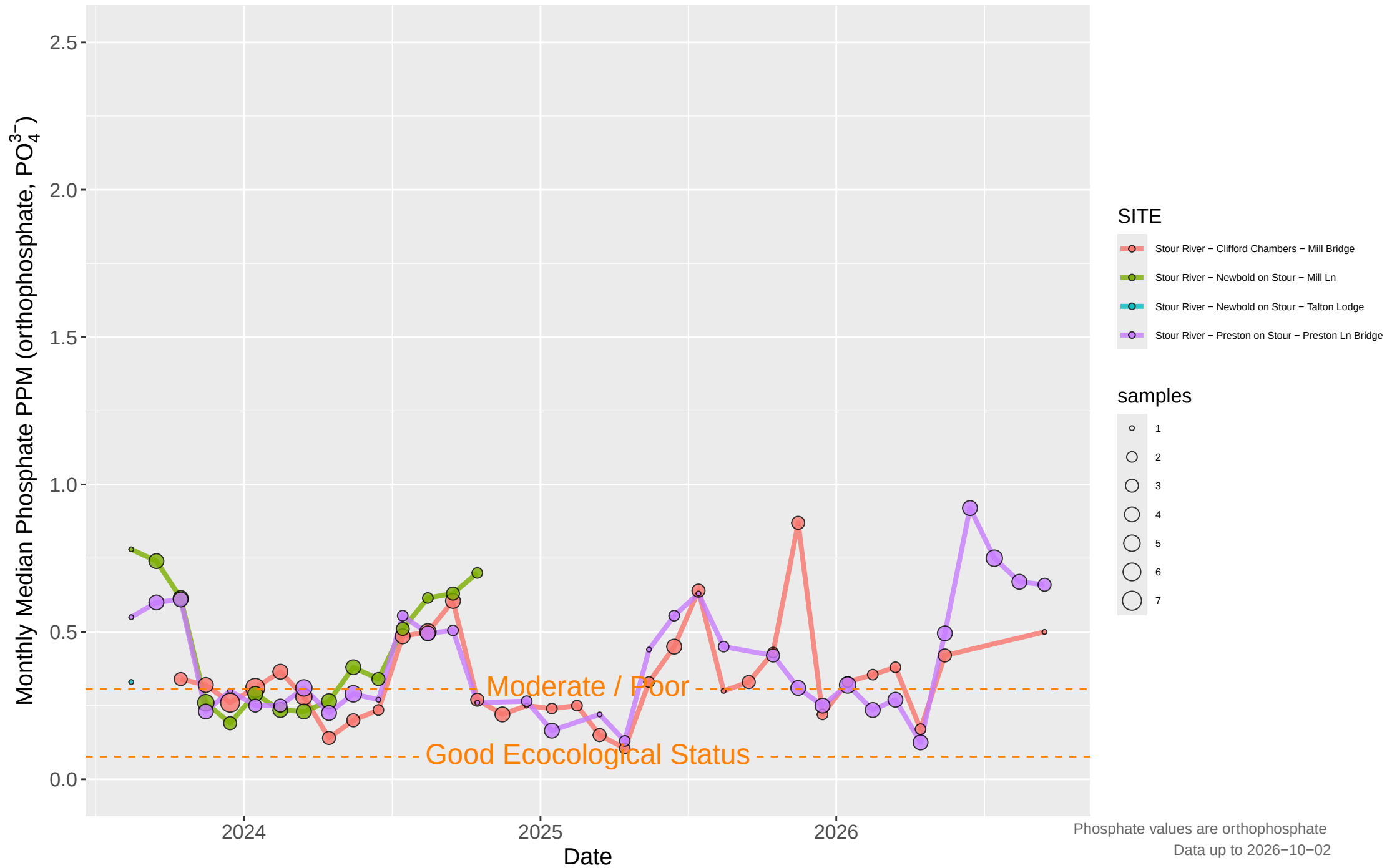


Summary for sites in Lower Stour

SITE	Start	Most Recent	Samples	Distinct Volunteers	Median Phosphates PPM	Median Nitrates PPM
Stour River – Preston on Stour – Preston Ln Bridge	2023-08-31	2026-09-25	107	2	0.32	5.0
Stour River – Clifford Chambers – Mill Bridge	2023-10-17	2026-09-11	100	2	0.31	7.5
Stour River – Newbold on Stour – Mill Ln	2023-08-30	2024-10-02	50	2	0.32	2.0
Stour River – Newbold on Stour – Talton Lodge	2023-08-29	2023-08-29	1	1	0.33	10.0

SafeAvon Phosphates – By Month

Lower Stour



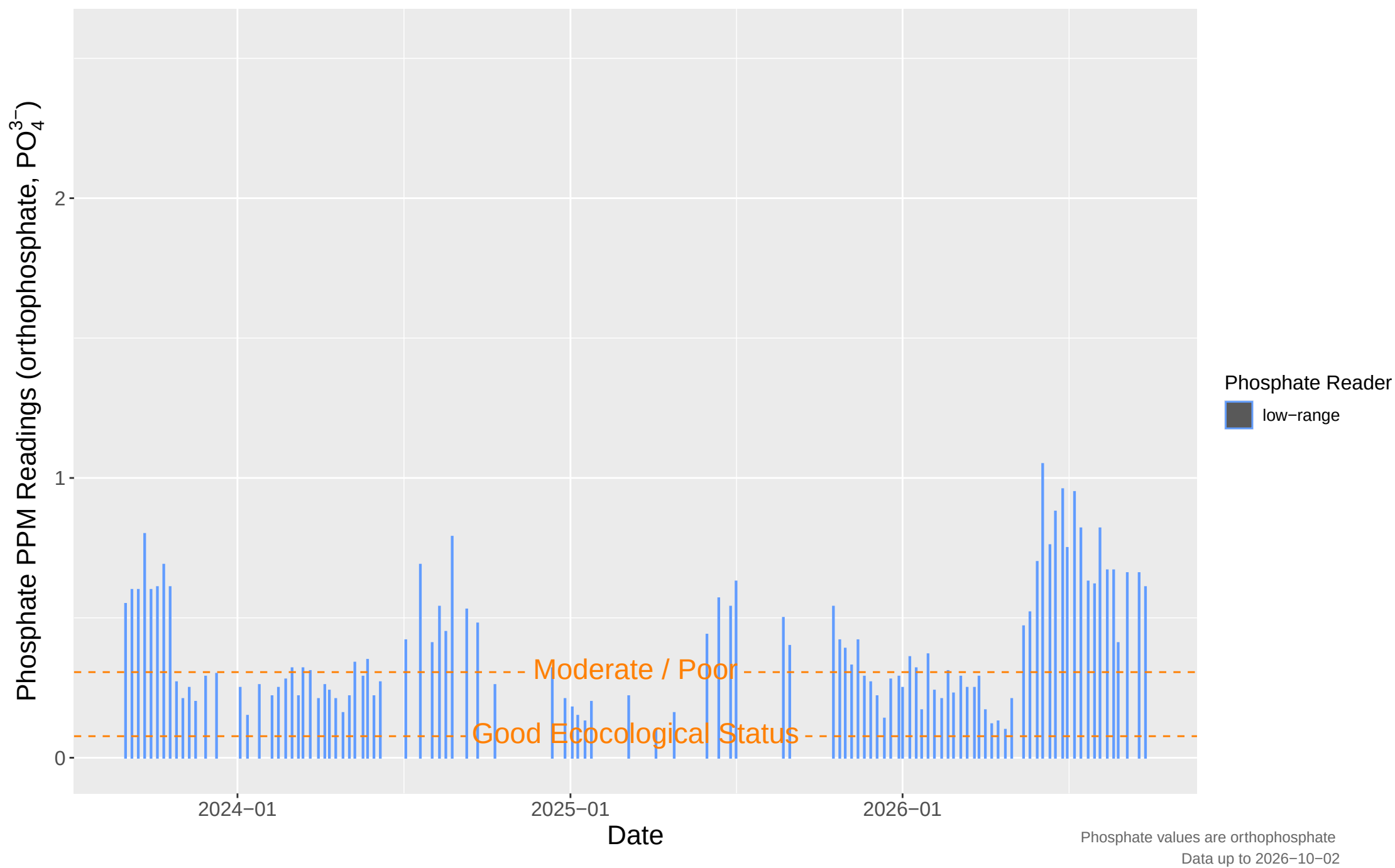
Site: Stour River – Preston on Stour – Preston Ln Bridge

Start Date: 2023-08-31 | Most Recent: 2026-09-25 | Total Samples: 107 | 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	1		0.55	0.55	0.55		5	5	5		699	699	699		16.0	16.0	16.0
Autumn 23	12		0.20	0.60	0.80		5	5	5		609	673	718		9.4	14.9	21.4
Winter 23-24	7		0.15	0.25	0.30		5	5	5		436	548	653		5.9	8.3	11.3
Spring 24	14		0.16	0.25	0.35		5	5	5		508	650	706		7.8	11.7	17.1
Summer 24	7		0.27	0.45	0.79		5	5	10		644	664	712		15.6	19.2	21.2
Autumn 24	3		0.26	0.48	0.53		5	5	5		525	694	711		13.3	16.5	16.7
Winter 24-25	6		0.13	0.19	0.32		5	5	10		605	639	682		4.4	6.7	9.5
Spring 25	4		0.10	0.19	0.44		5	5	5		621	668	701		8.3	12.3	19.0
Summer 25	5		0.40	0.54	0.63		2	5	5		574	587	770		17.4	18.7	21.3
Autumn 25	7		0.27	0.39	0.54		2	5	10		701	732	763		6.1	11.3	13.8
Winter 25-26	13		0.14	0.25	0.37		2	5	10		352	503	660		5.4	7.7	11.2
Spring 26	12		0.10	0.25	0.70		5	5	5		553	644	710		9.1	12.4	19.7
Summer 26	13		0.41	0.76	1.05		2	2	5		678	734	795		17.1	20.4	26.2
Autumn 26	3		0.61	0.66	0.66		2	2	5		710	760	773		16.4	17.5	17.8

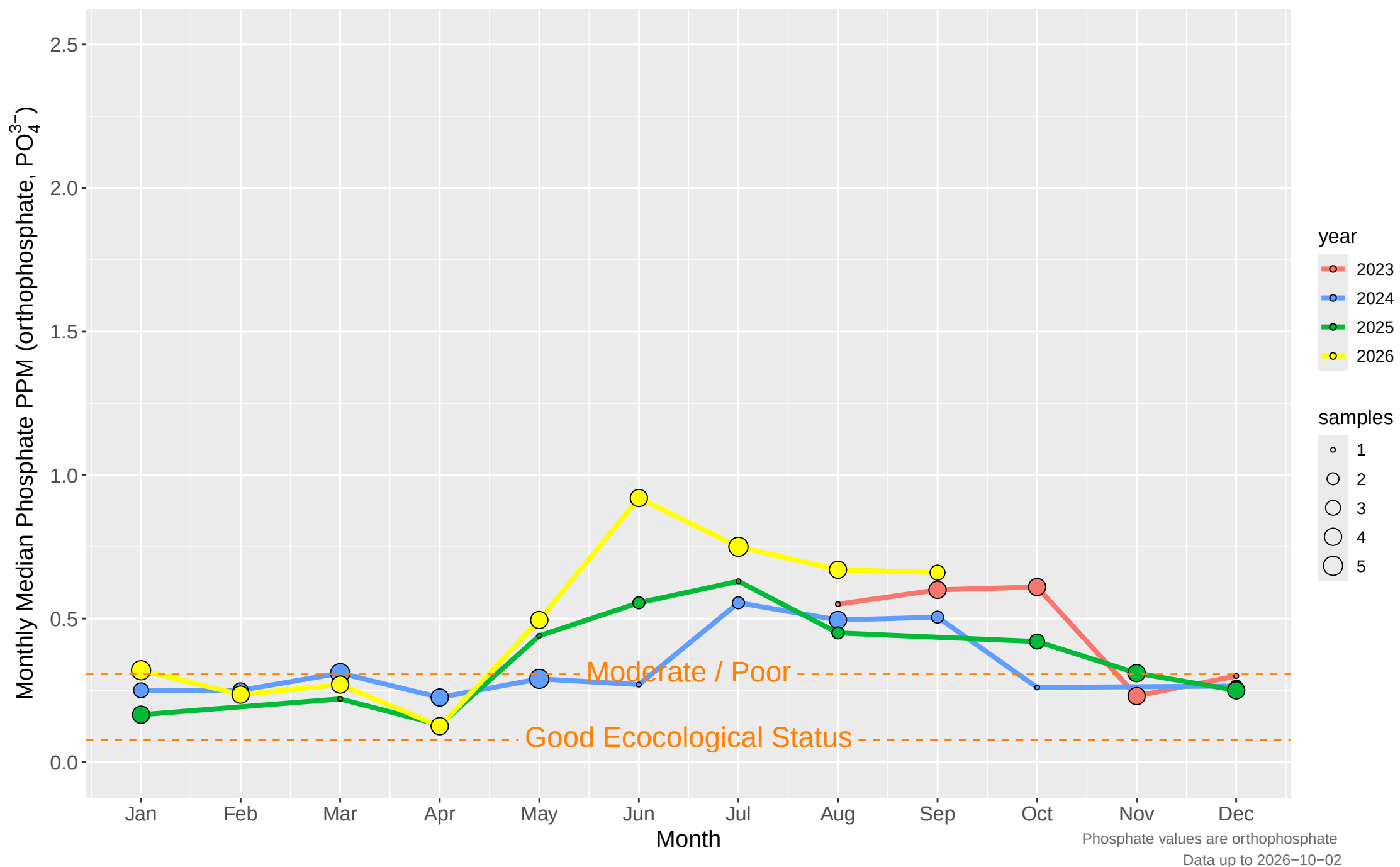
SafeAvon Phosphates – Individual Readings

Stour River – Preston on Stour – Preston Ln Bridge



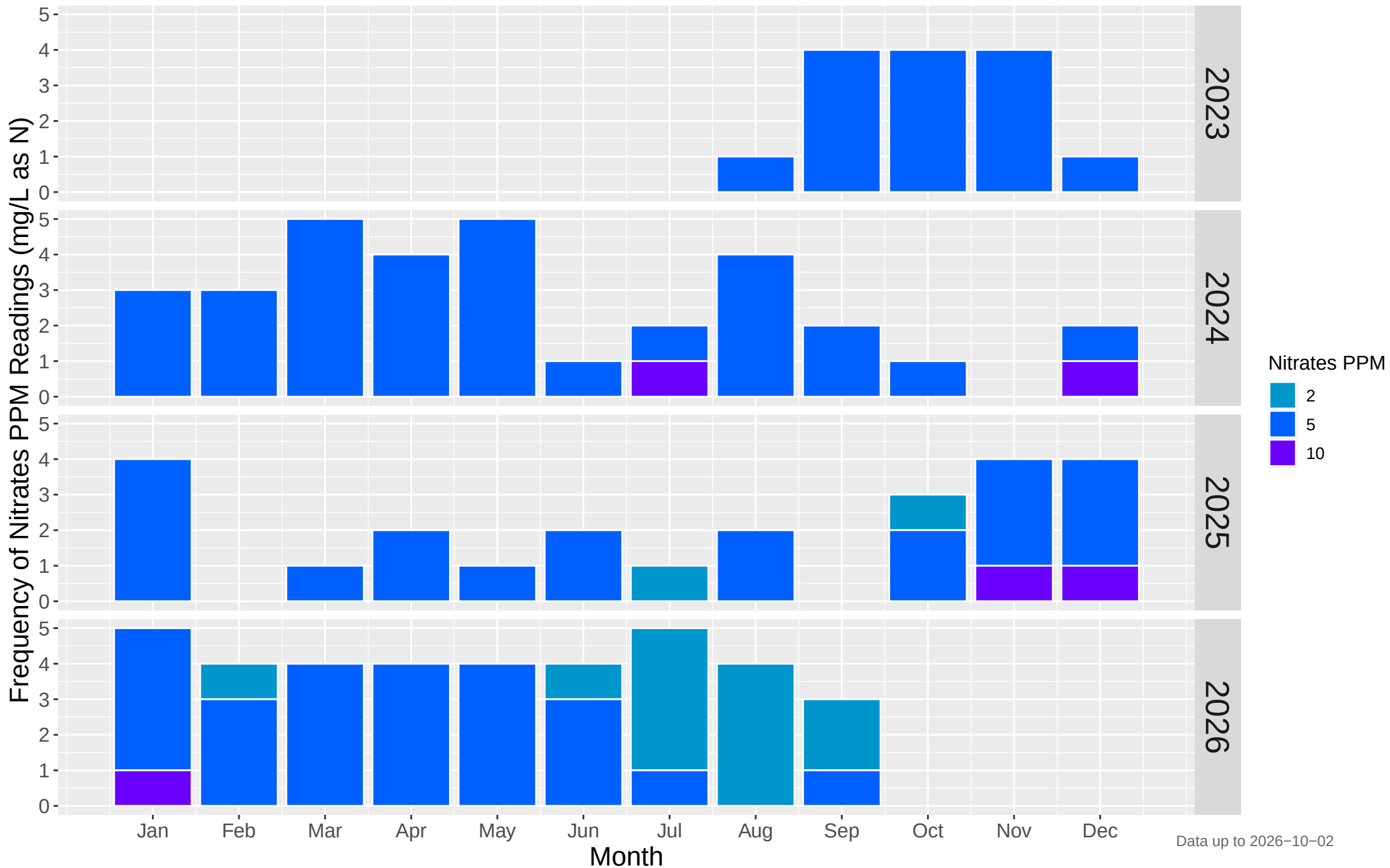
SafeAvon Phosphates – By Month

Stour River – Preston on Stour – Preston Ln Bridge



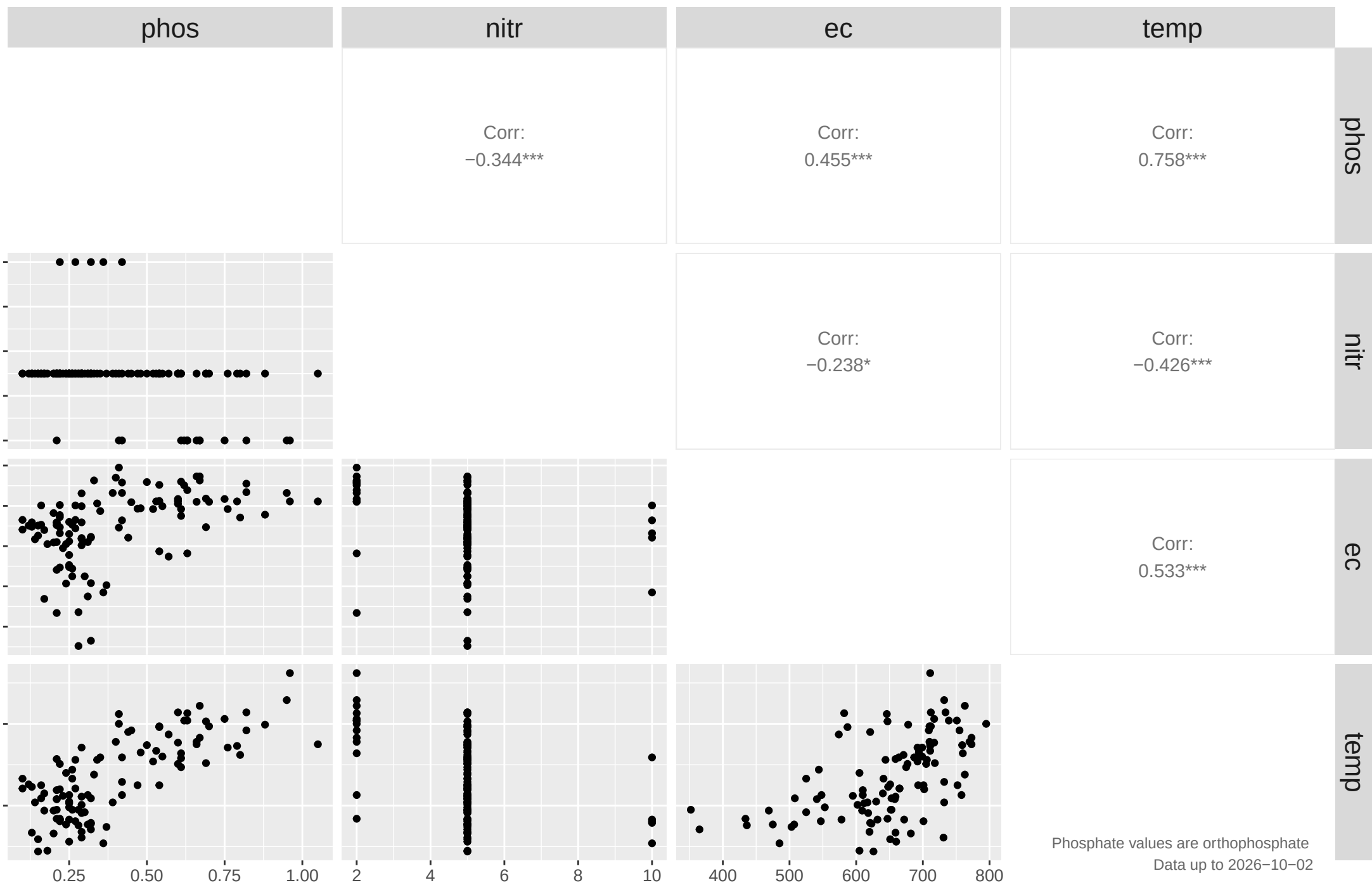
SafeAvon Nitrates By Month

Stour River – Preston on Stour – Preston Ln Bridge



Pairwise Testing Variables Relationships

Stour River – Preston on Stour – Preston Ln Bridge

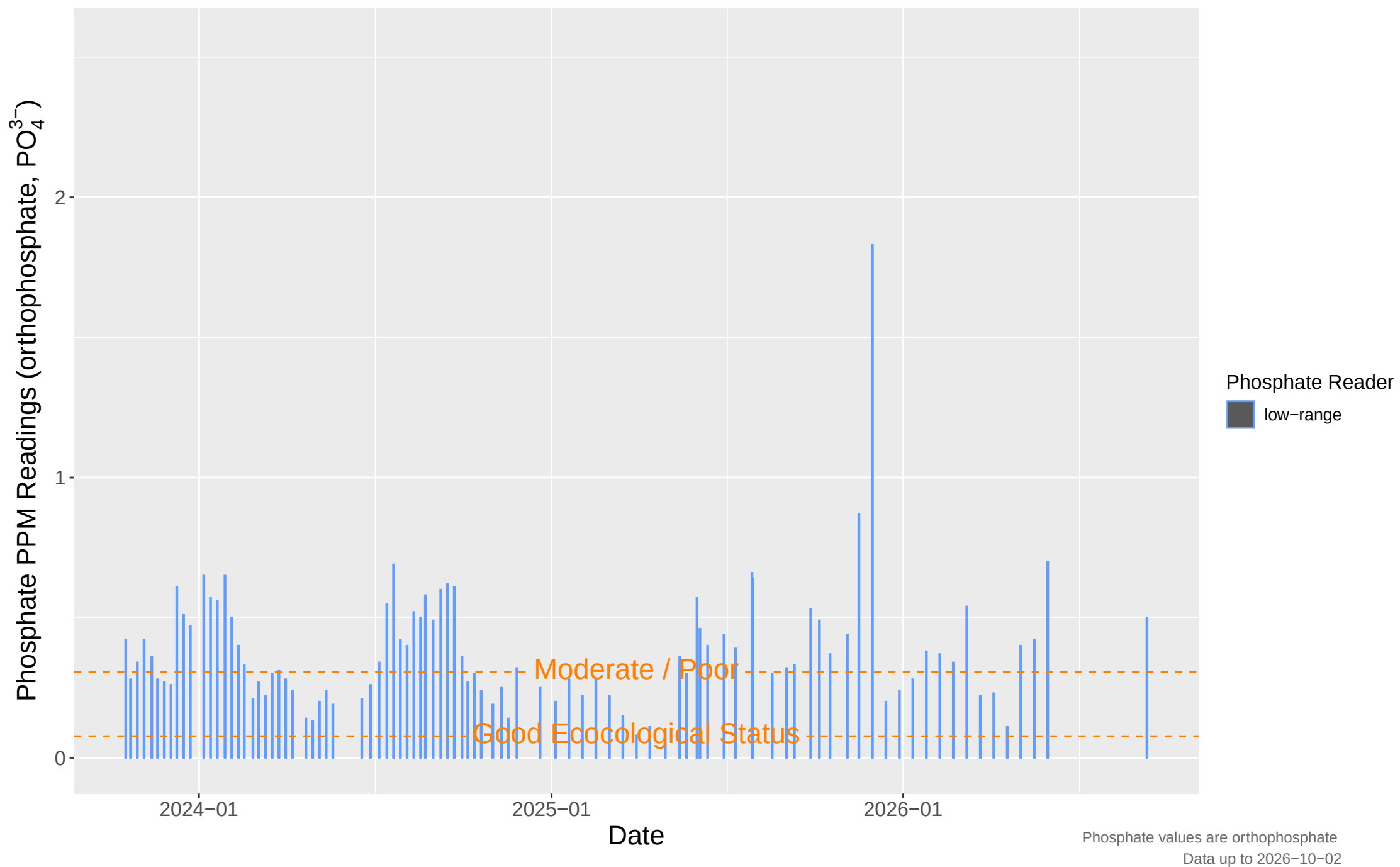


Site: Stour River – Clifford Chambers – Mill Bridge

Start Date: 2023-10-17 | Most Recent: 2026-09-11 | Total Samples: 100 | Distinct Volunteers: 2

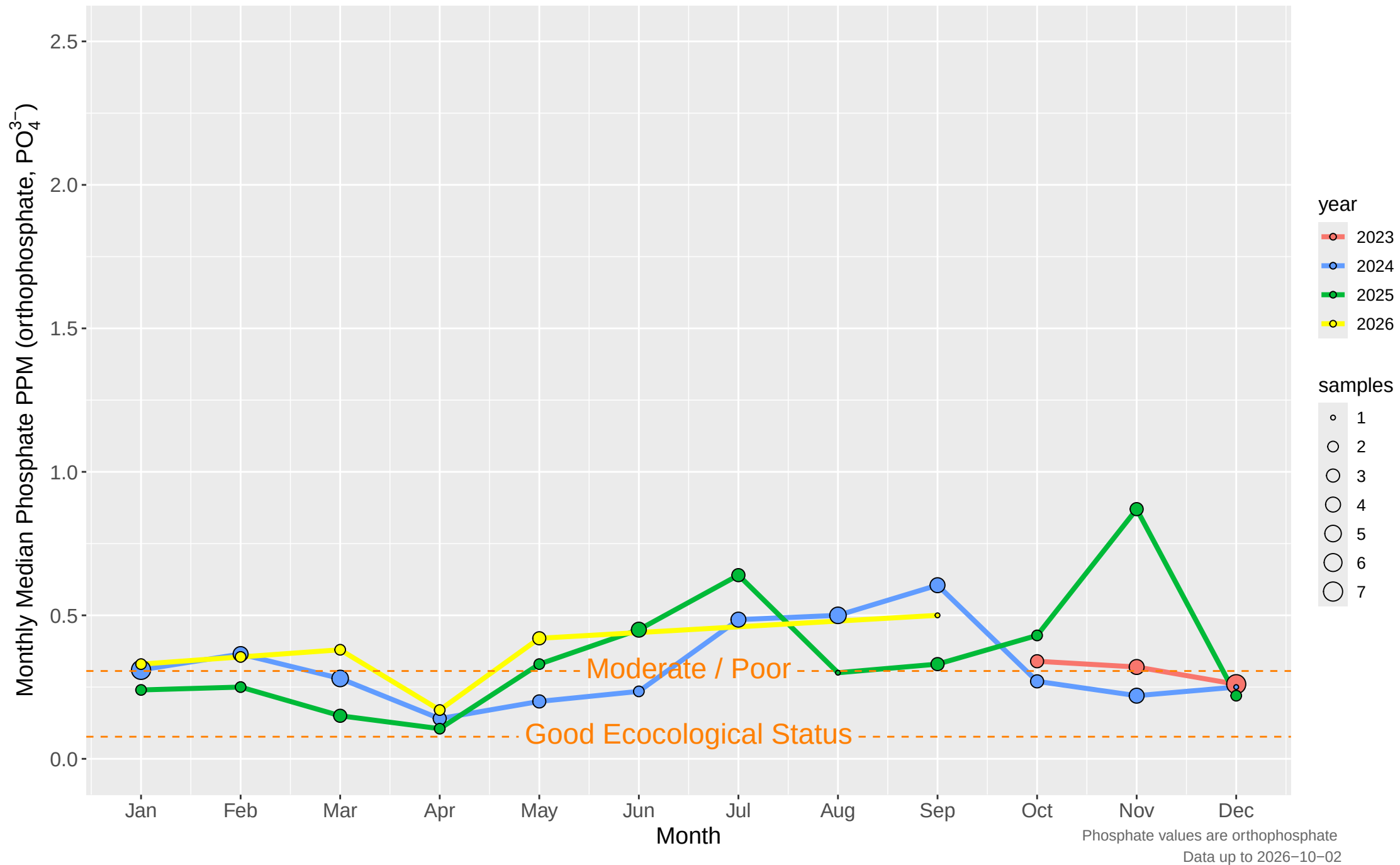
Season	Count		Phos Min	Phos Med	Phos Max		Nitr Min	Nitr Med	Nitr Max		EC Min	EC Med	EC Max		Temp Min	Temp Med	Temp Max
Autumn 23	7		0.27	0.34	0.42		5	5	10		164	493	704		6.2	13.4	14.5
Winter 23-24	18		0.21	0.29	0.65		5	5	10		504	636	711		4.7	12.4	14.9
Spring 24	11		0.13	0.24	0.31		2	10	10		460	647	699		9.2	12.8	20.3
Summer 24	11		0.21	0.49	0.69		5	10	10		640	678	705		17.2	19.8	22.3
Autumn 24	11		0.14	0.30	0.62		5	5	10		518	624	728		8.7	13.4	21.6
Winter 24-25	5		0.20	0.25	0.28		10	10	10		490	609	666		5.1	6.1	7.8
Spring 25	7		0.08	0.15	0.36		10	10	10		636	660	686		7.7	14.2	20.3
Summer 25	8		0.30	0.45	0.66		5	5	10		662	714	753		18.6	22.8	26.7
Autumn 25	8		0.32	0.46	1.83		5	5	5		608	709	740		8.1	17.5	22.5
Winter 25-26	6		0.20	0.31	0.38		10	10	10		475	550	647		5.3	8.9	12.0
Spring 26	7		0.11	0.40	0.70		10	10	10		600	636	685		9.7	14.1	22.0
Autumn 26	1		0.50	0.50	0.50		2	2	2		689	689	689		17.0	17.0	17.0

Stour River – Clifford Chambers – Mill Bridge



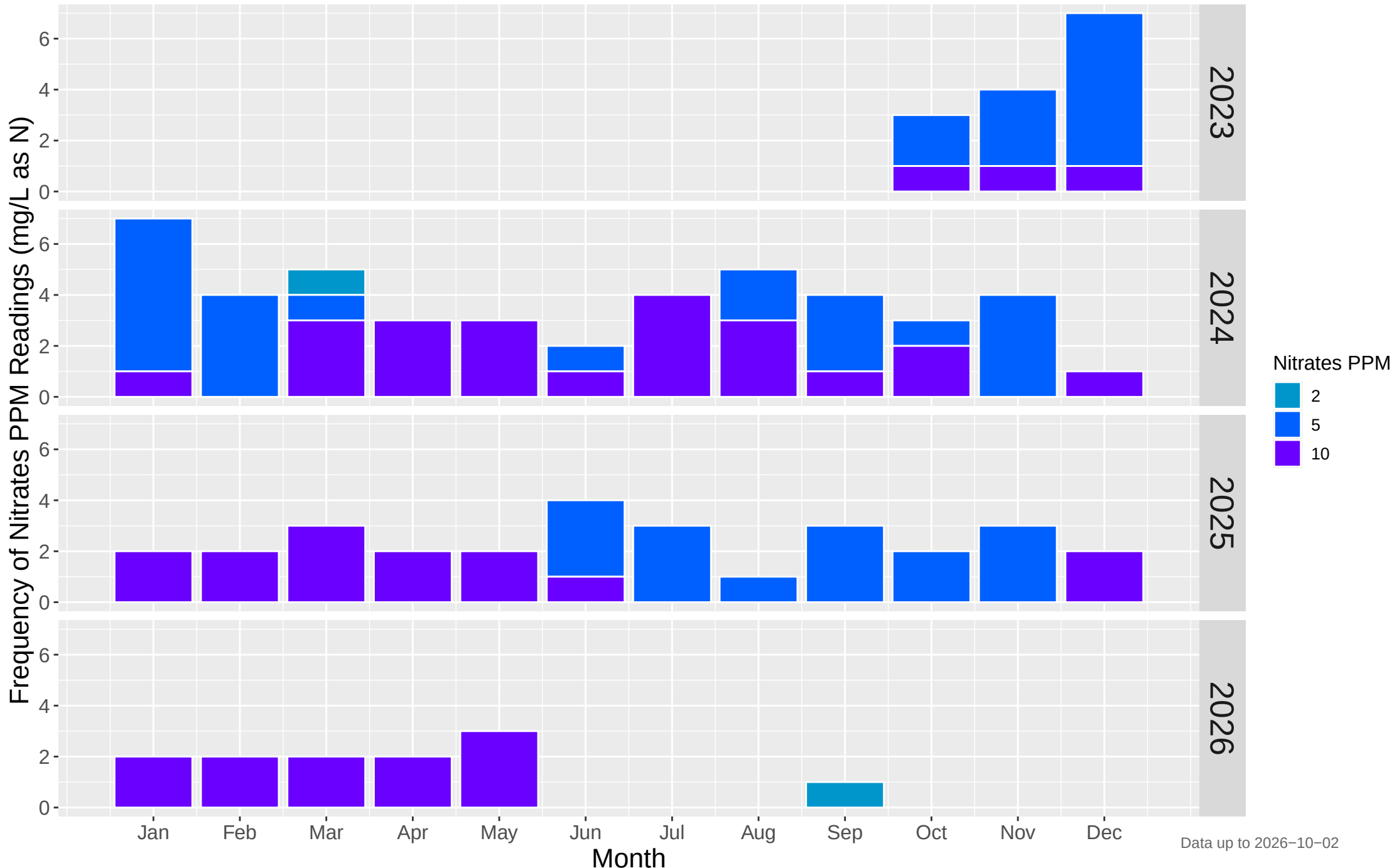
SafeAvon Phosphates – By Month

Stour River – Clifford Chambers – Mill Bridge



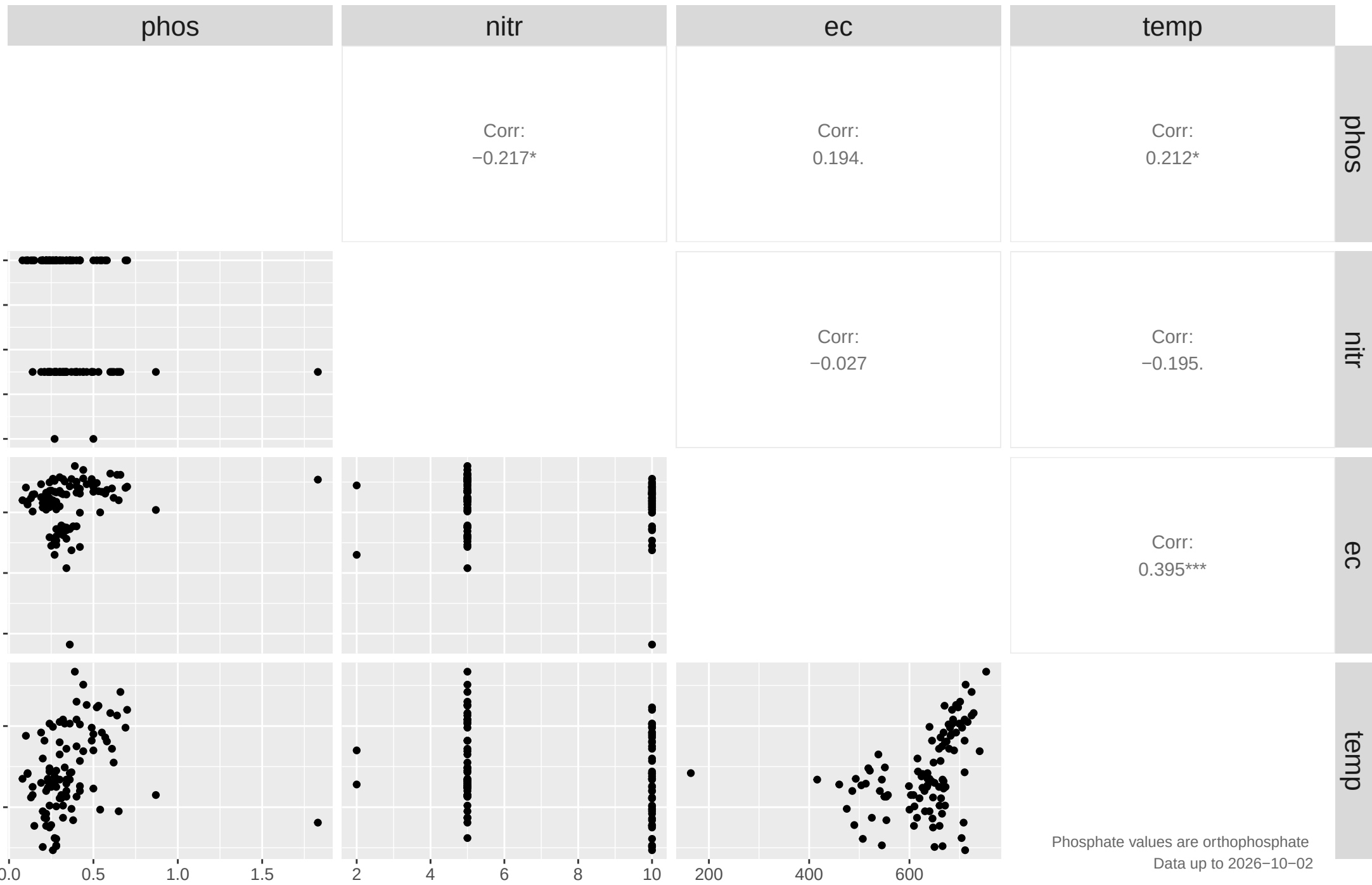
SafeAvon Nitrates By Month

Stour River – Clifford Chambers – Mill Bridge



Pairwise Testing Variables Relationships

Stour River – Clifford Chambers – Mill Bridge



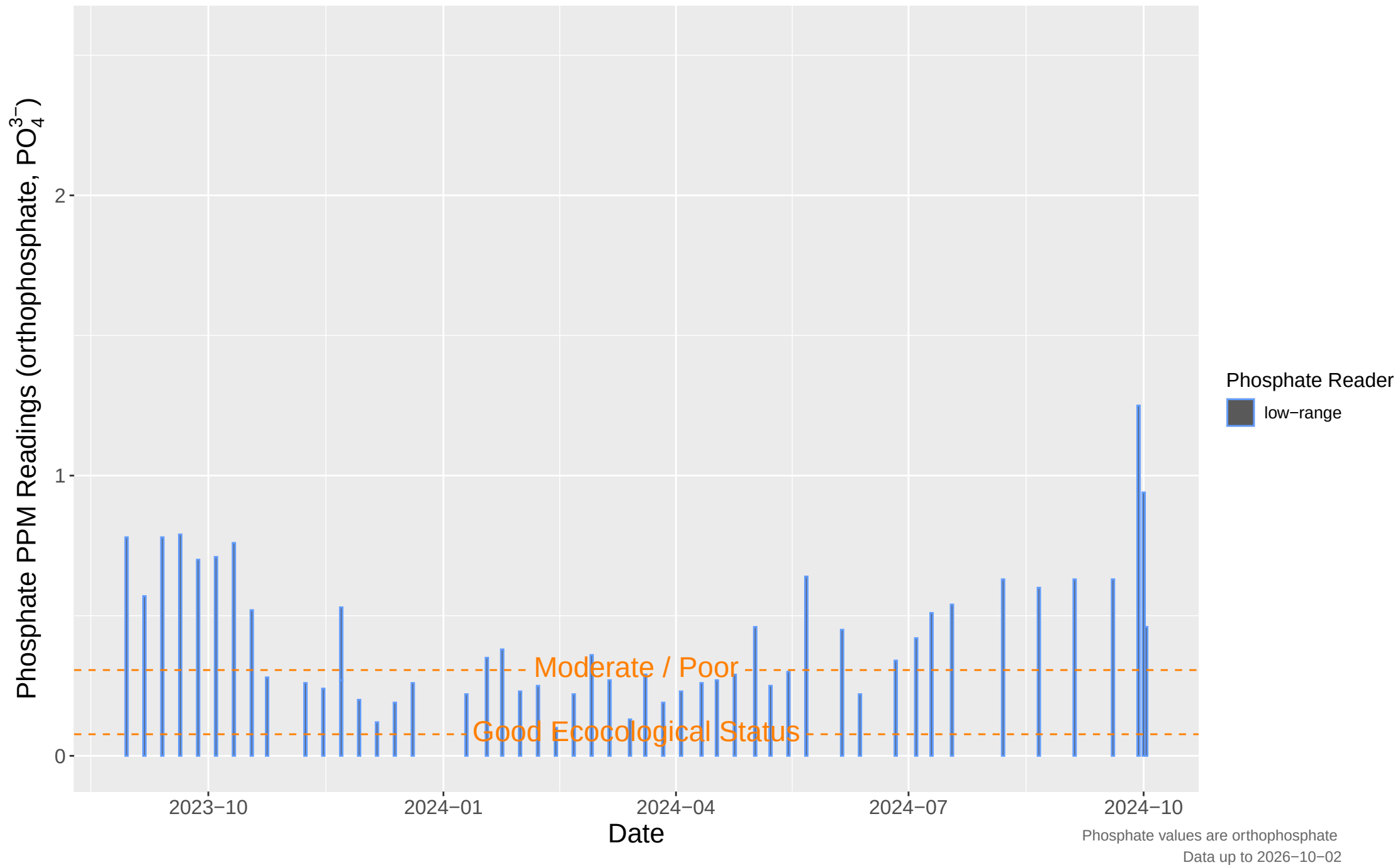
Site: Stour River – Newbold on Stour – Mill Ln

Start Date: 2023-08-30 | Most Recent: 2024-10-02 | Total Samples: 50 | 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	1		0.78	0.78	0.78		2	2	2		637	637	637		18.4	18.4	18.4
Autumn 23	13		0.20	0.52	0.79		2	5	10		661	676	854		10.3	12.1	19.7
Winter 23-24	11		0.10	0.23	0.38		2	5	5		483	610	678		7.2	9.2	13.0
Spring 24	12		0.13	0.27	0.64		2	2	2		397	597	681		10.2	14.1	20.0
Summer 24	8		0.22	0.48	0.63		2	2	2		622	656	694		16.0	17.6	21.0
Autumn 24	5		0.46	0.63	1.25		2	5	5		386	682	703		14.2	15.3	19.3

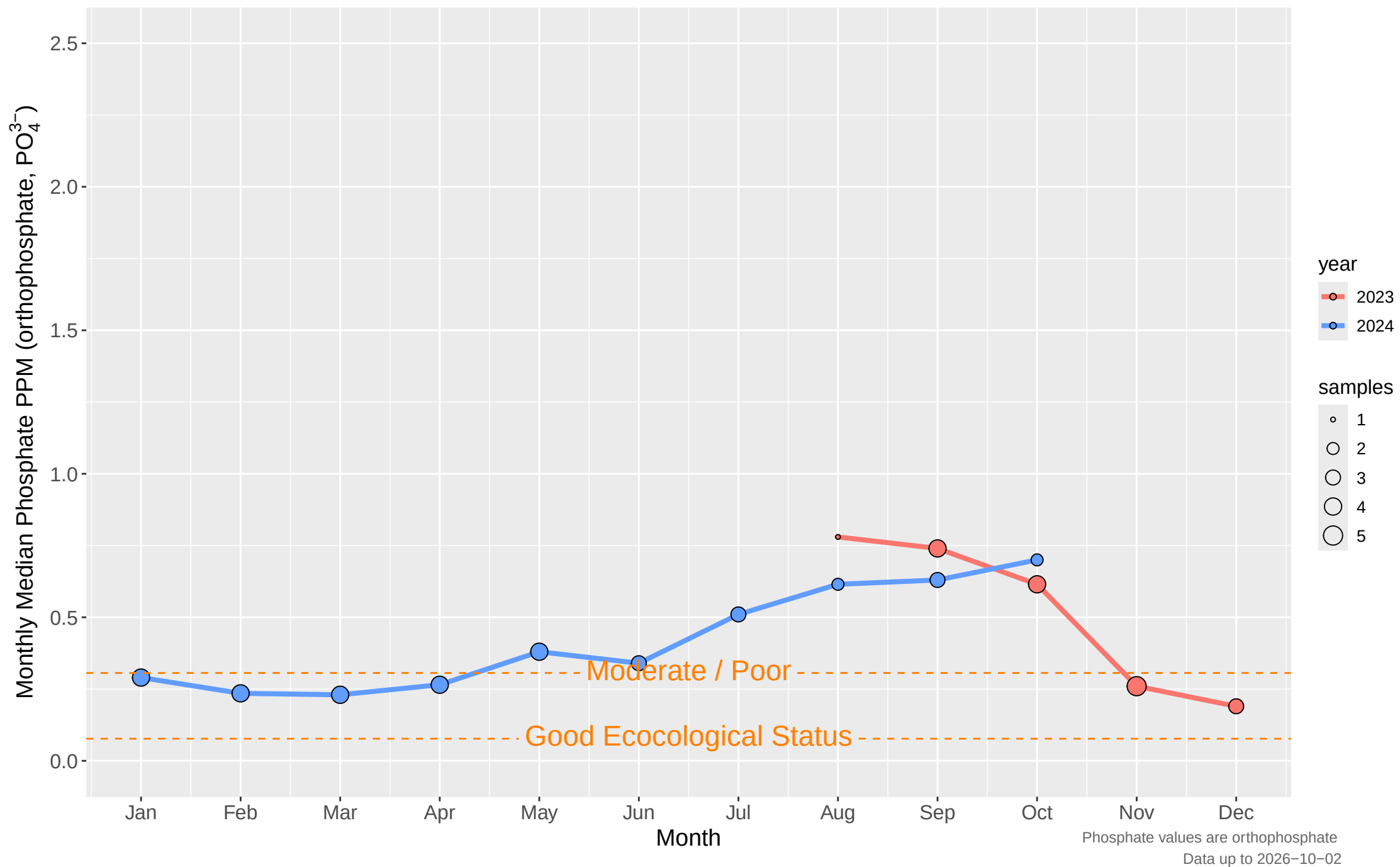
SafeAvon Phosphates – Individual Readings

Stour River – Newbold on Stour – Mill Ln



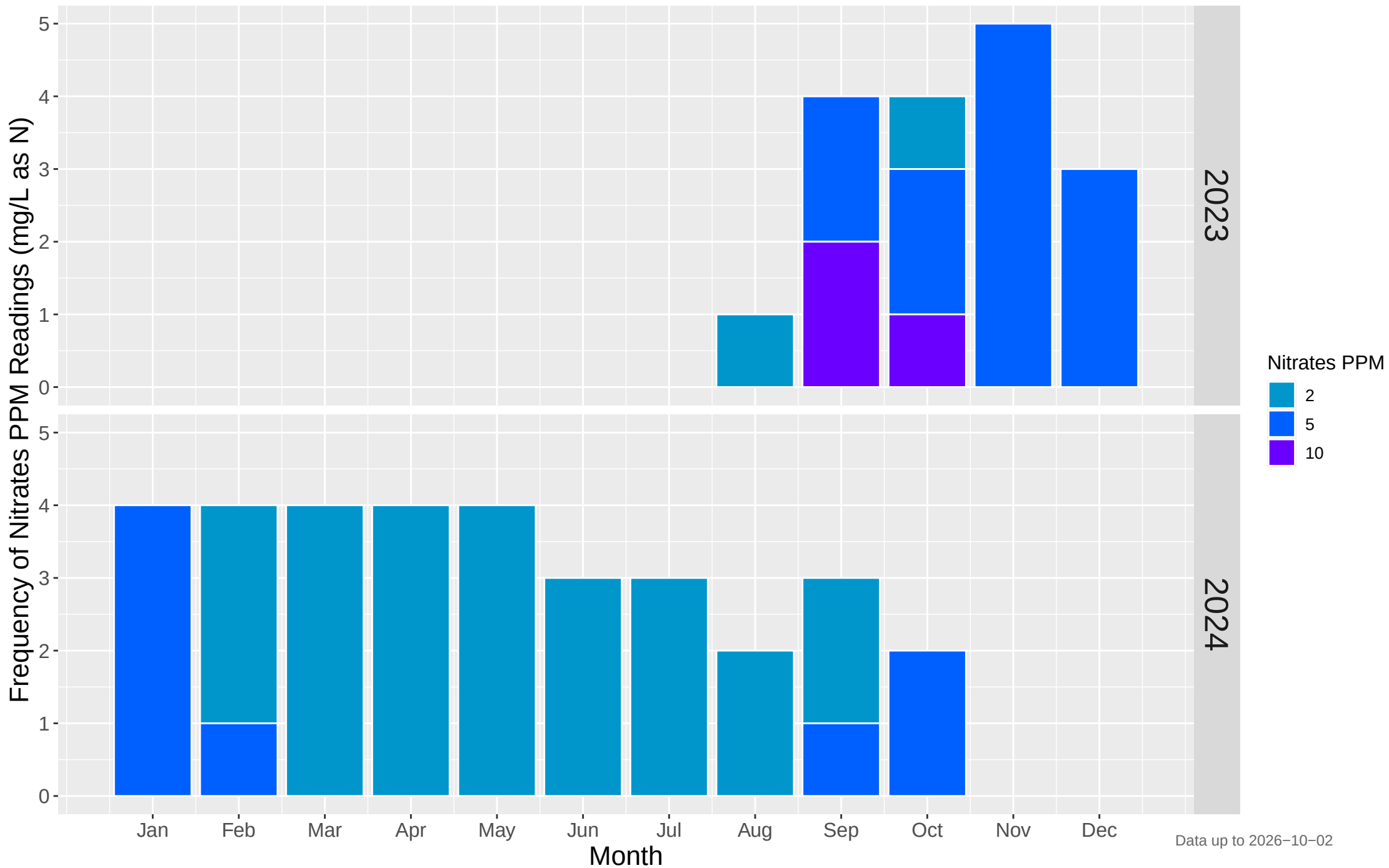
SafeAvon Phosphates – By Month

Stour River – Newbold on Stour – Mill Ln



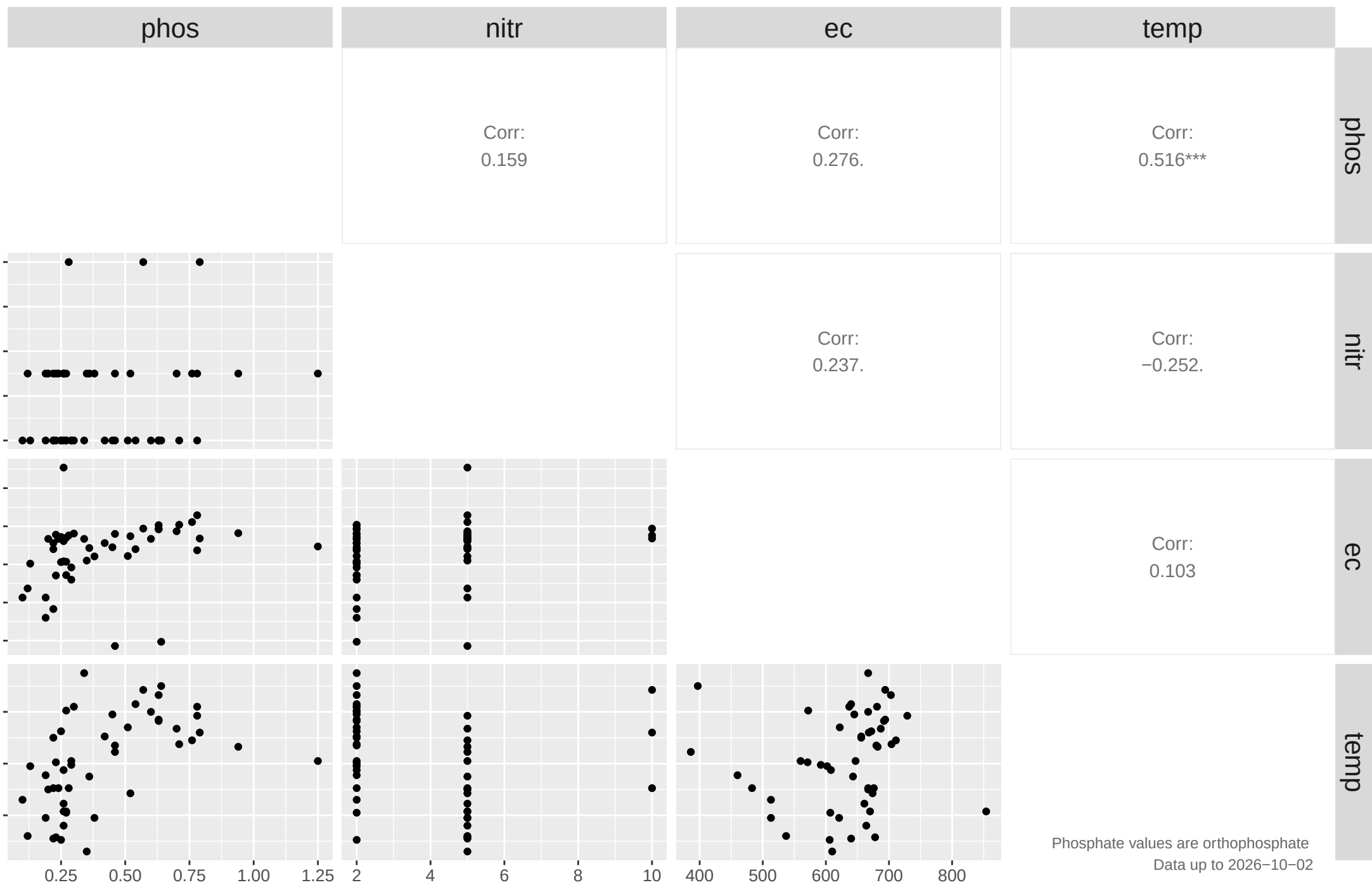
SafeAvon Nitrates By Month

Stour River – Newbold on Stour – Mill Ln



Pairwise Testing Variables Relationships

Stour River – Newbold on Stour – Mill Ln



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