

SafeAvon Nutrient Testing Report: Napton (Expanded)

SafeAvon Sites By Waterway

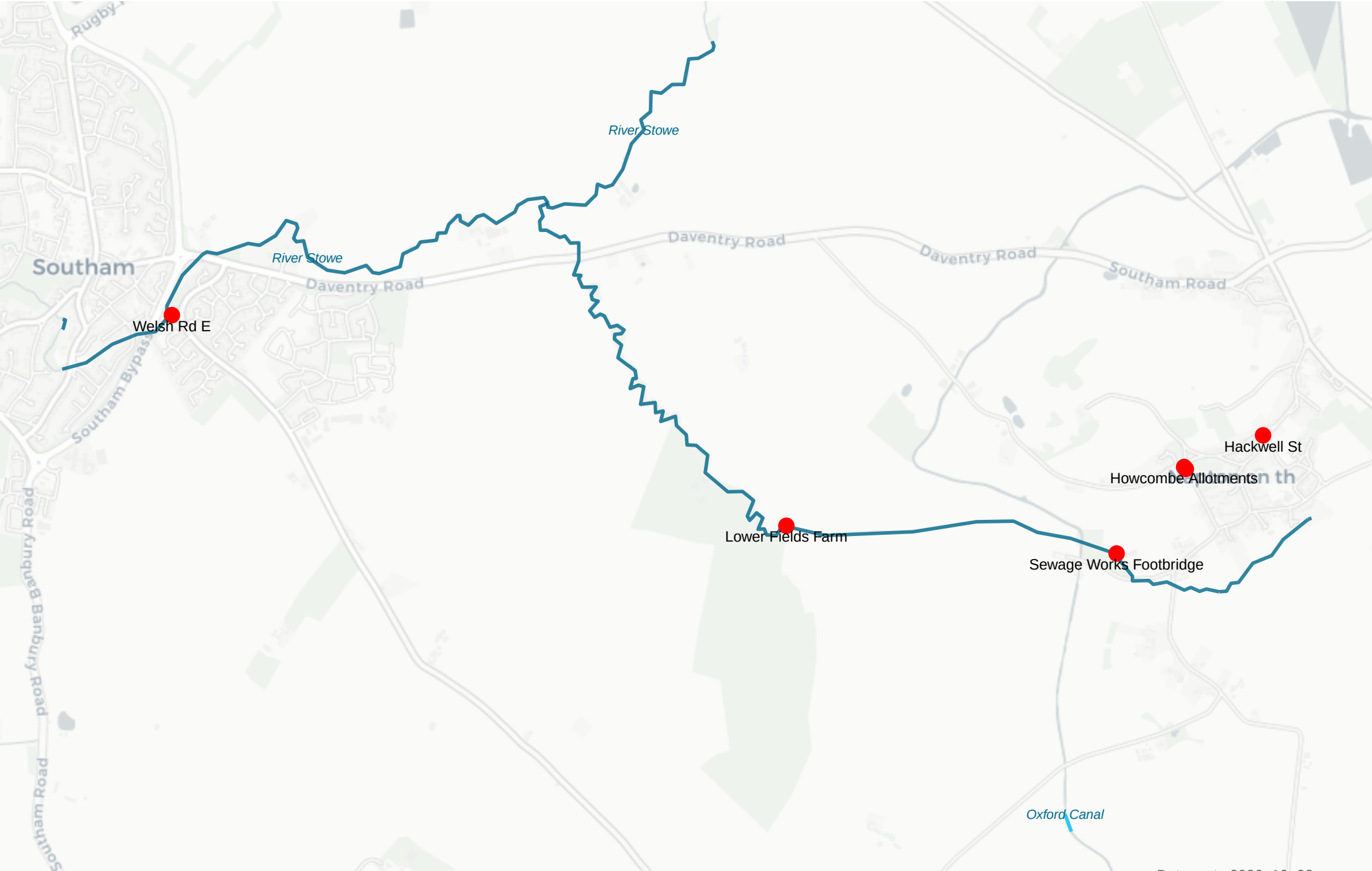
Howcombe Spring

- . Napton on the Hill – Howcombe Allotments

Stowe River

- . Napton on the Hill – Hackwell St
- . Napton on the Hill – Howcombe Allotments
- . Napton on the Hill – Lower Fields Farm
- . Napton on the Hill – Sewage Works Footbridge
- . Southam – Welsh Rd E

SafeAvon Locations in Napton (Expanded)

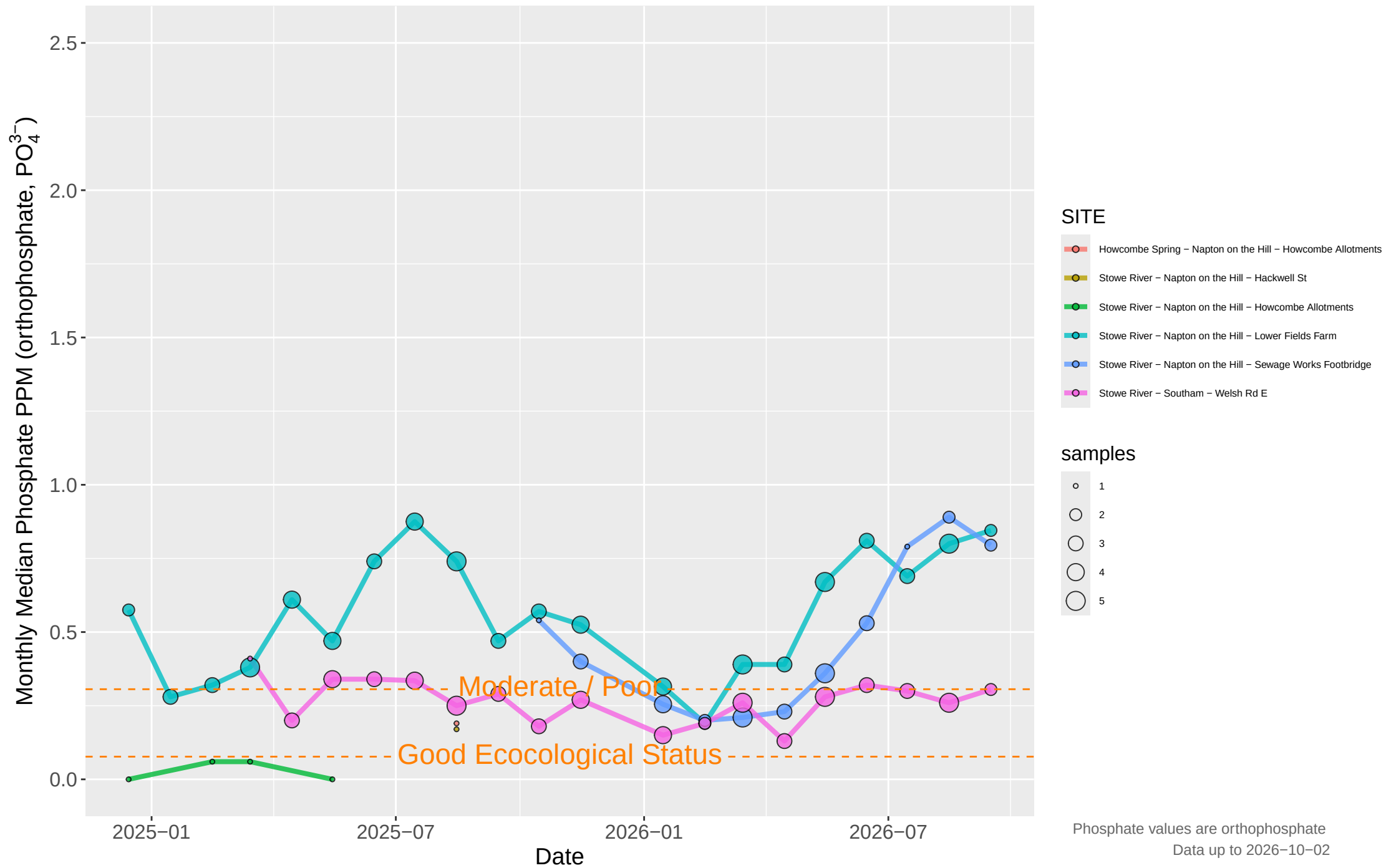


Summary for sites in Napton (Expanded)

SITE	Start	Most Recent	Samples	Distinct Volunteers	Median Phosphates PPM	Median Nitrates PPM
Stowe River – Napton on the Hill – Lower Fields Farm	2024-12-08	2026-09-13	76	1	0.55	5
Stowe River – Napton on the Hill – Sewage Works Footbridge	2025-10-12	2026-09-13	31	1	0.29	1
Stowe River – Southam – Welsh Rd E	2025-03-30	2026-09-13	63	1	0.27	2
Howcombe Spring – Napton on the Hill – Howcombe Allotments	2025-08-31	2025-08-31	1	1	0.19	2
Stowe River – Napton on the Hill – Hackwell St	2025-06-22	2025-08-31	2	1	0.17	5
Stowe River – Napton on the Hill – Howcombe Allotments	2024-12-22	2025-06-22	5	1	0.03	2

SafeAvon Phosphates – By Month

Napton (Expanded)



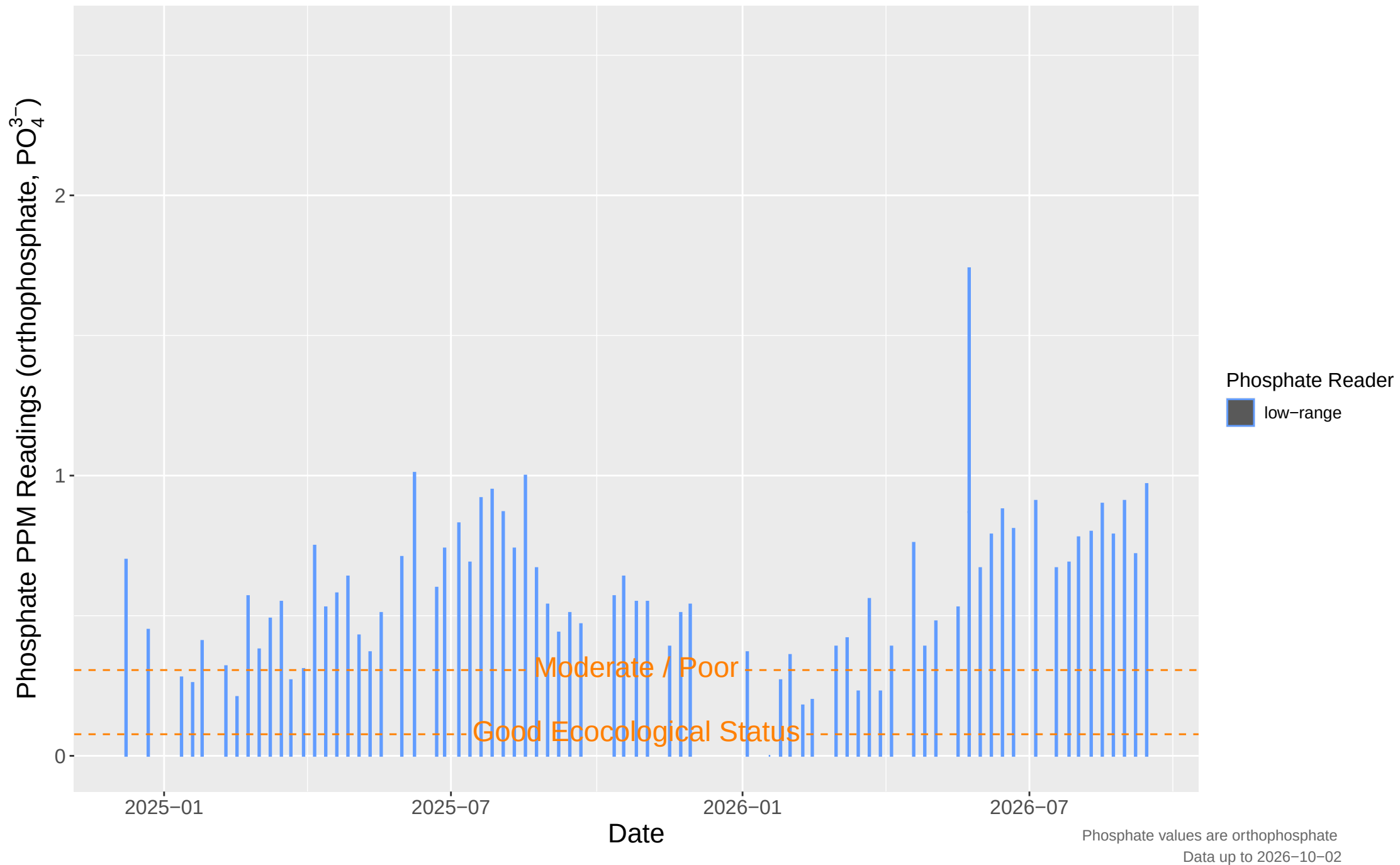
Site: Stowe River – Napton on the Hill – Lower Fields Farm

Start Date: 2024-12-08 | Most Recent: 2026-09-13 | Total Samples: 76 | 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
Winter 24-25	8		0.21	0.36	0.70		1	2	2		607	734	801		3.9	6.7	8.5
Spring 25	13		0.27	0.51	0.75		2	5	5		718	845	897		7.2	13.2	21.6
Summer 25	12		0.54	0.78	1.01		5	10	10		714	852	938		14.2	18.5	23.2
Autumn 25	11		0.39	0.52	0.64		2	10	10		696	881	994		7.6	9.9	17.4
Winter 25-26	6		0.00	0.24	0.37		2	2	5		460	540	823		1.9	7.2	8.3
Spring 26	13		0.23	0.48	0.87		2	5	10		555	794	875		7.6	10.4	21.3
Summer 26	11		0.67	0.80	0.91		5	10	50		791	884	1047		15.9	18.6	20.4
Autumn 26	2		0.72	0.84	0.97		10	15	20		814	822	829		18.5	19.4	20.4

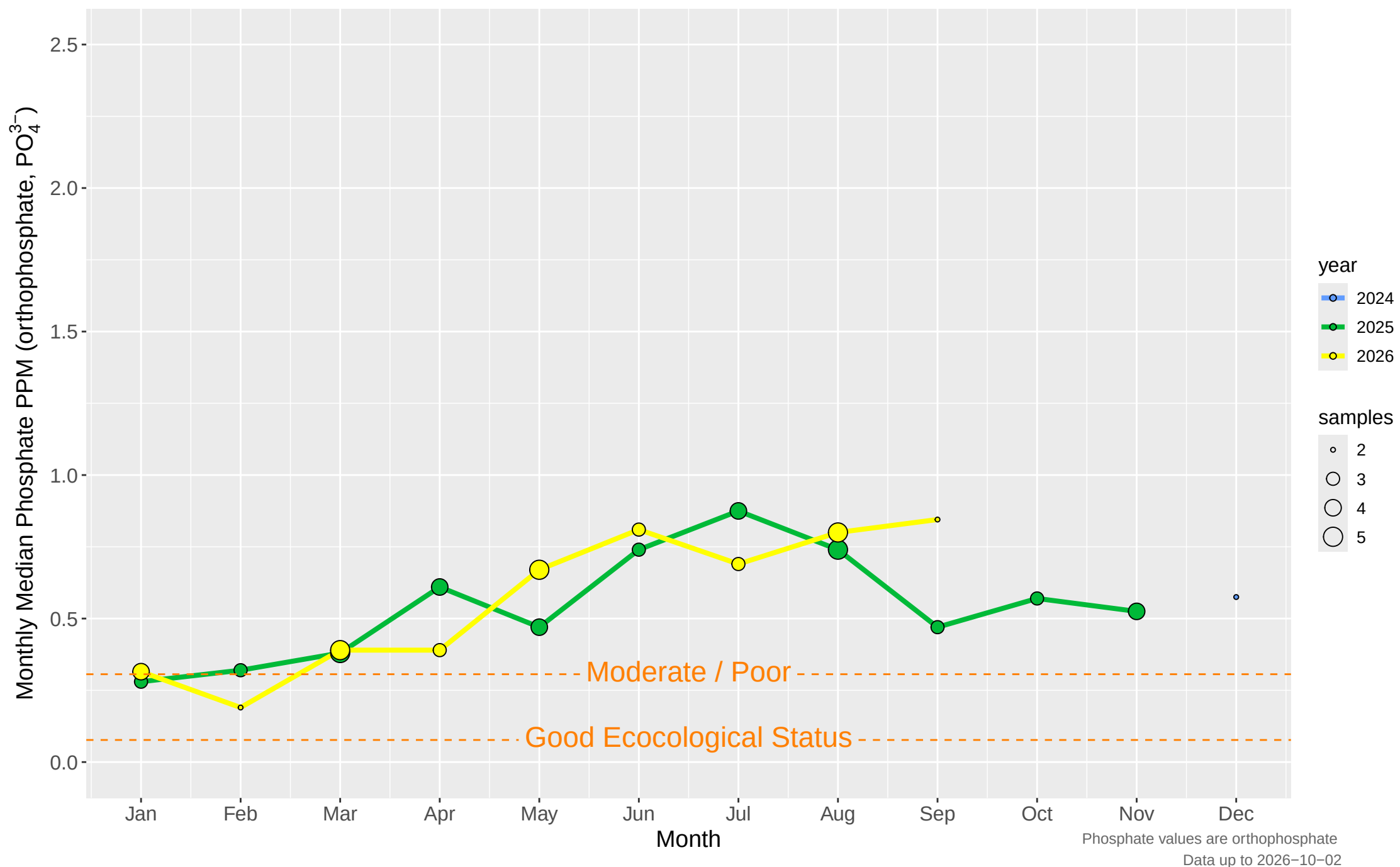
SafeAvon Phosphates – Individual Readings

Stowe River – Napton on the Hill – Lower Fields Farm



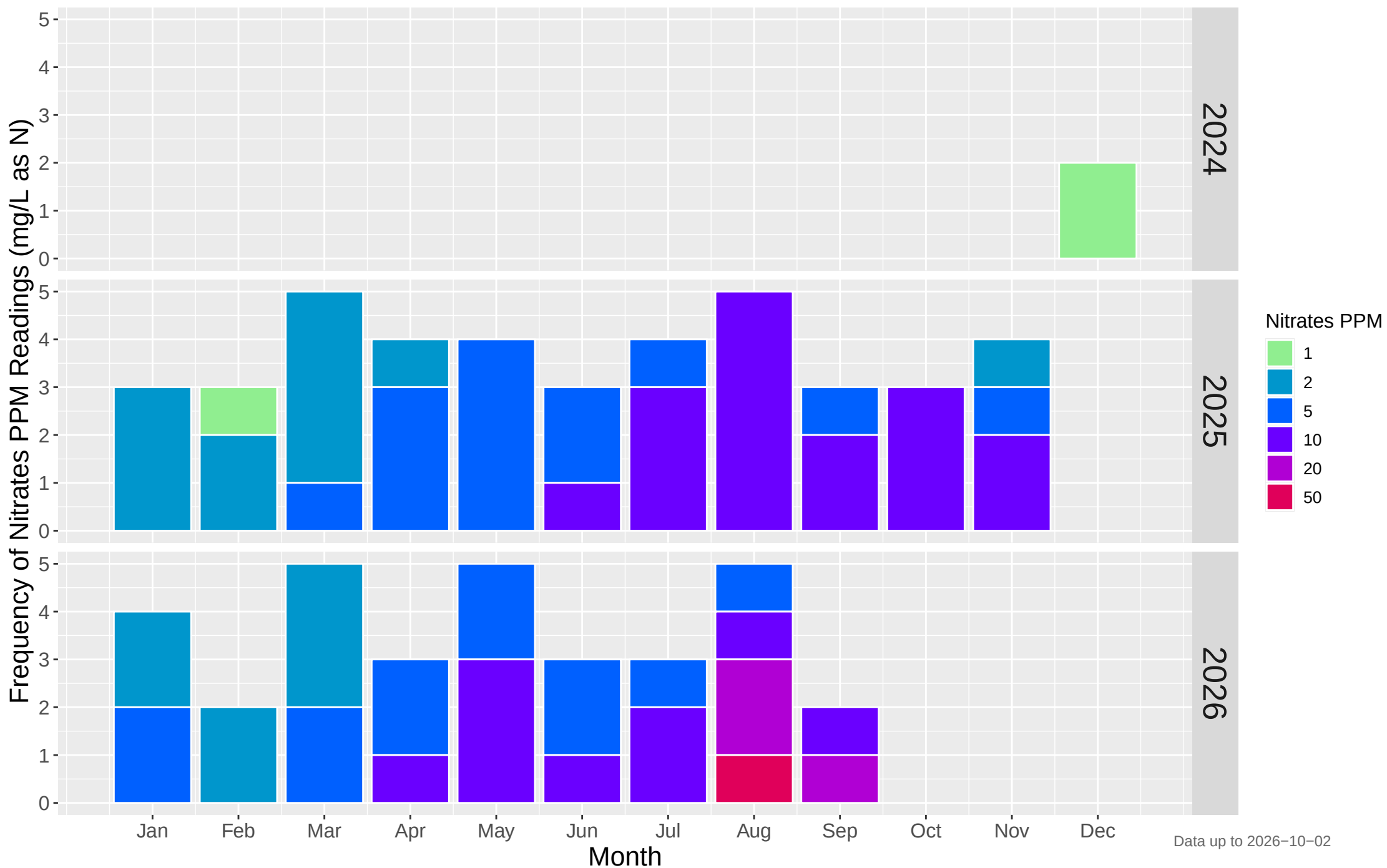
SafeAvon Phosphates – By Month

Stowe River – Napton on the Hill – Lower Fields Farm



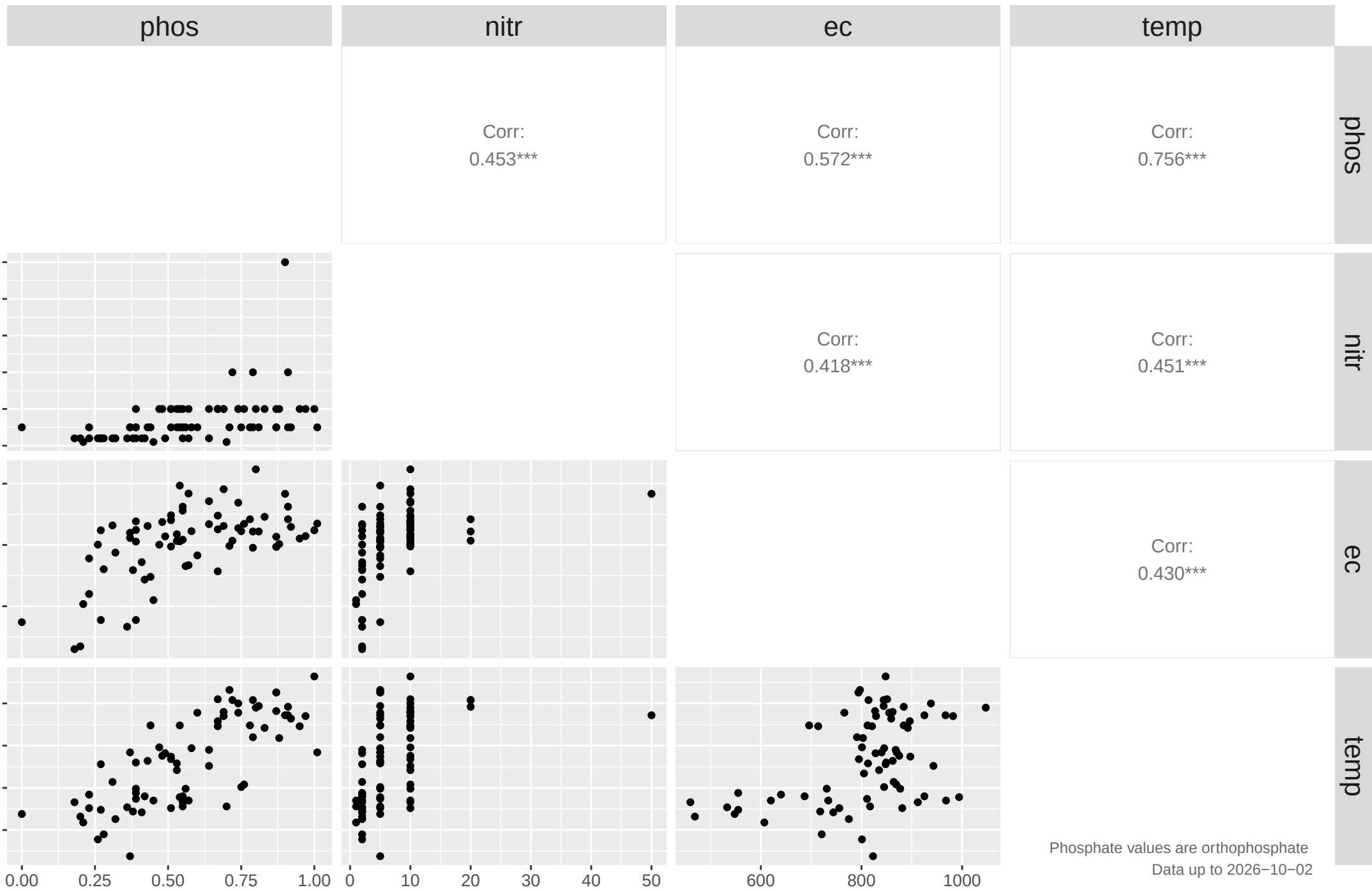
SafeAvon Nitrates By Month

Stowe River – Napton on the Hill – Lower Fields Farm



Pairwise Testing Variables Relationships

Stowe River – Napton on the Hill – Lower Fields Farm



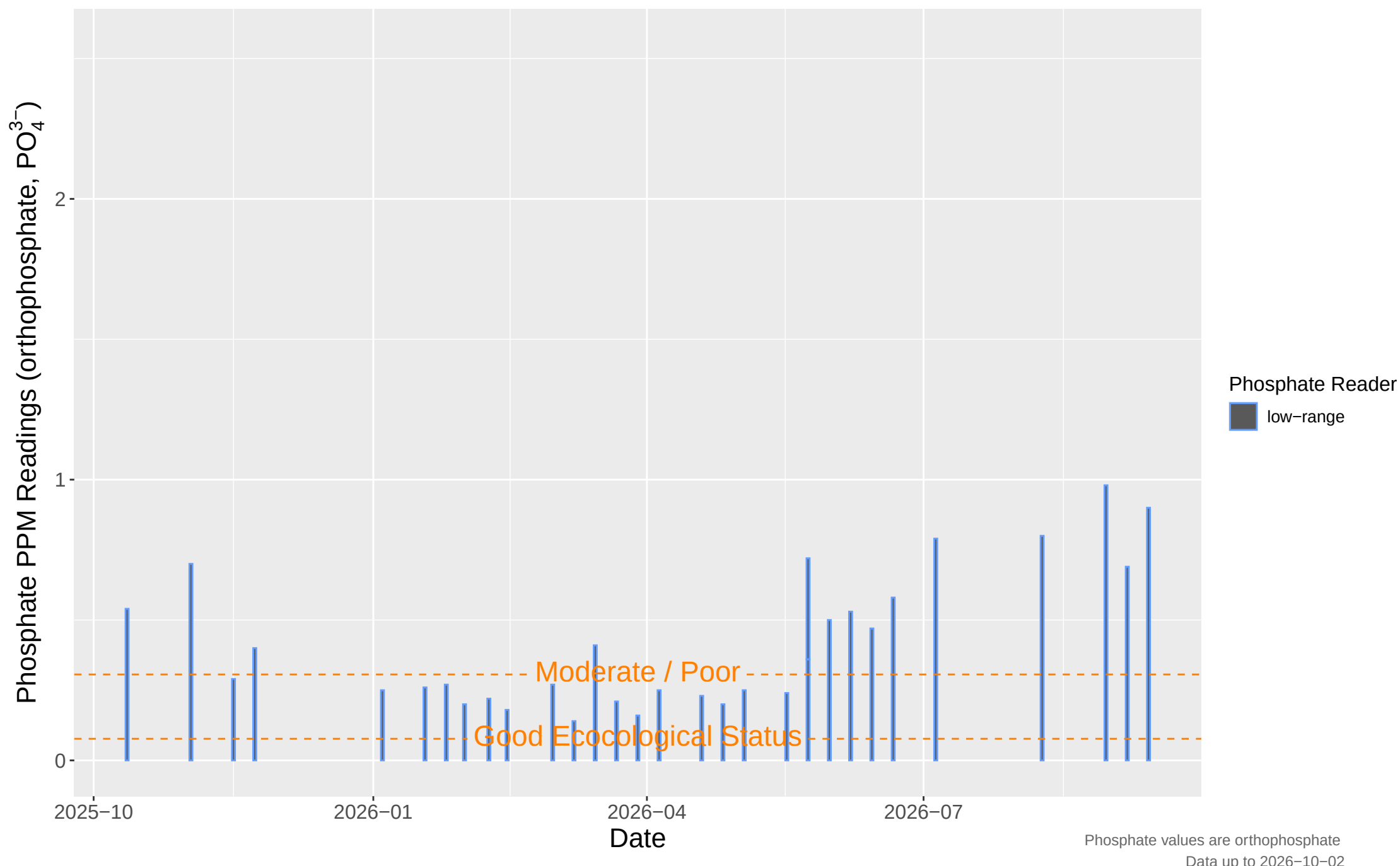
Site: Stowe River – Napton on the Hill – Sewage Works Footbridge

Start Date: 2025-10-12 | Most Recent: 2026-09-13 | Total Samples: 31 | 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
Autumn 25	4		0.29	0.47	0.70		1.0	1.5	10.0		719	802	911		7.6	11.6	12.2
Winter 25-26	6		0.18	0.23	0.27		2.0	2.0	2.0		450	522	805		2.7	7.7	8.5
Spring 26	13		0.14	0.25	0.50		0.0	1.0	2.0		548	813	907		7.3	10.5	18.6
Summer 26	6		0.47	0.69	0.98		0.0	0.0	0.5		694	826	928		14.6	19.2	19.9
Autumn 26	2		0.69	0.79	0.90		0.5	0.5	0.5		671	705	739		18.8	19.9	20.9

SafeAvon Phosphates – Individual Readings

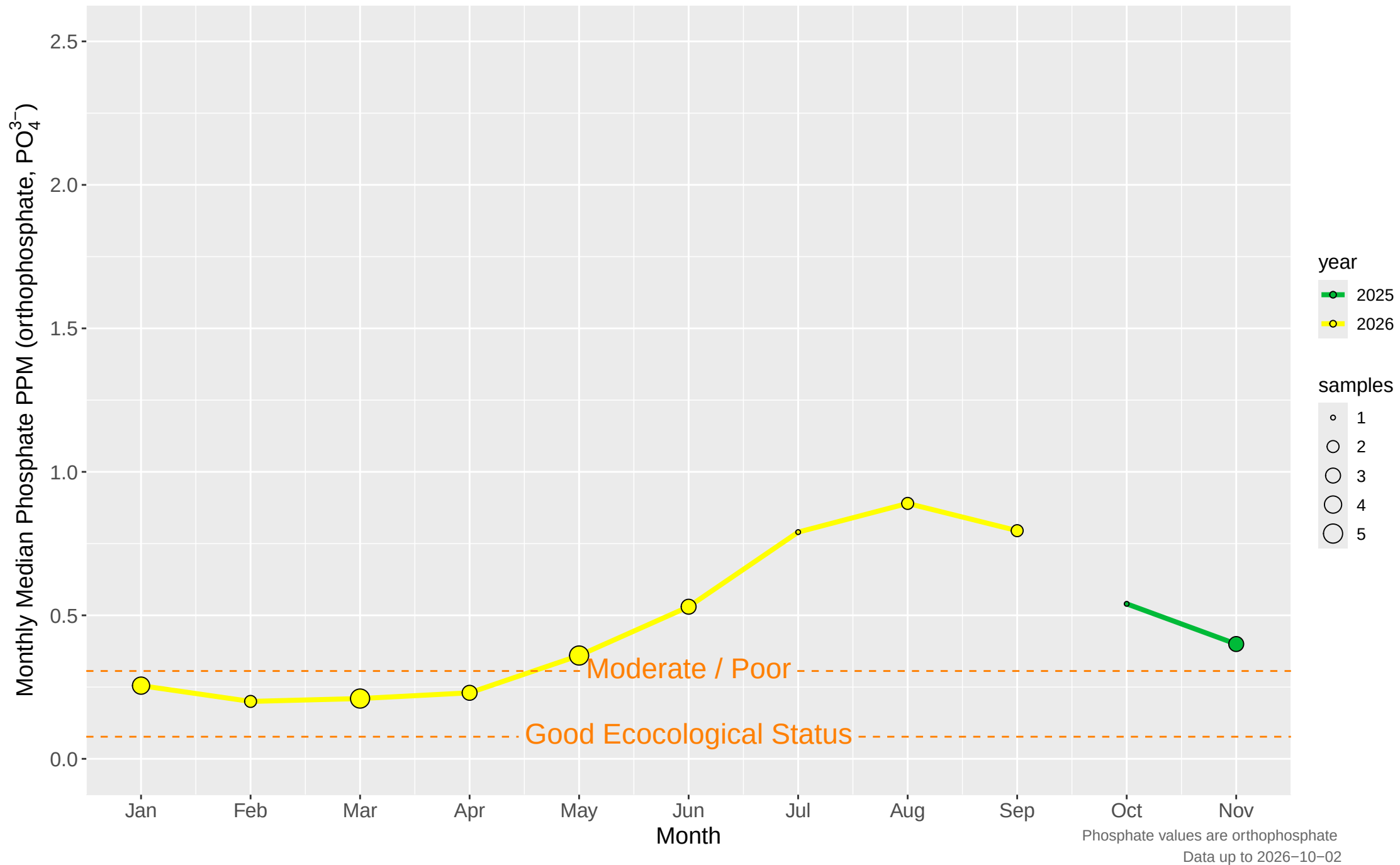
Stowe River – Napton on the Hill – Sewage Works Footbridge



Phosphate values are orthophosphate
Data up to 2026-10-02

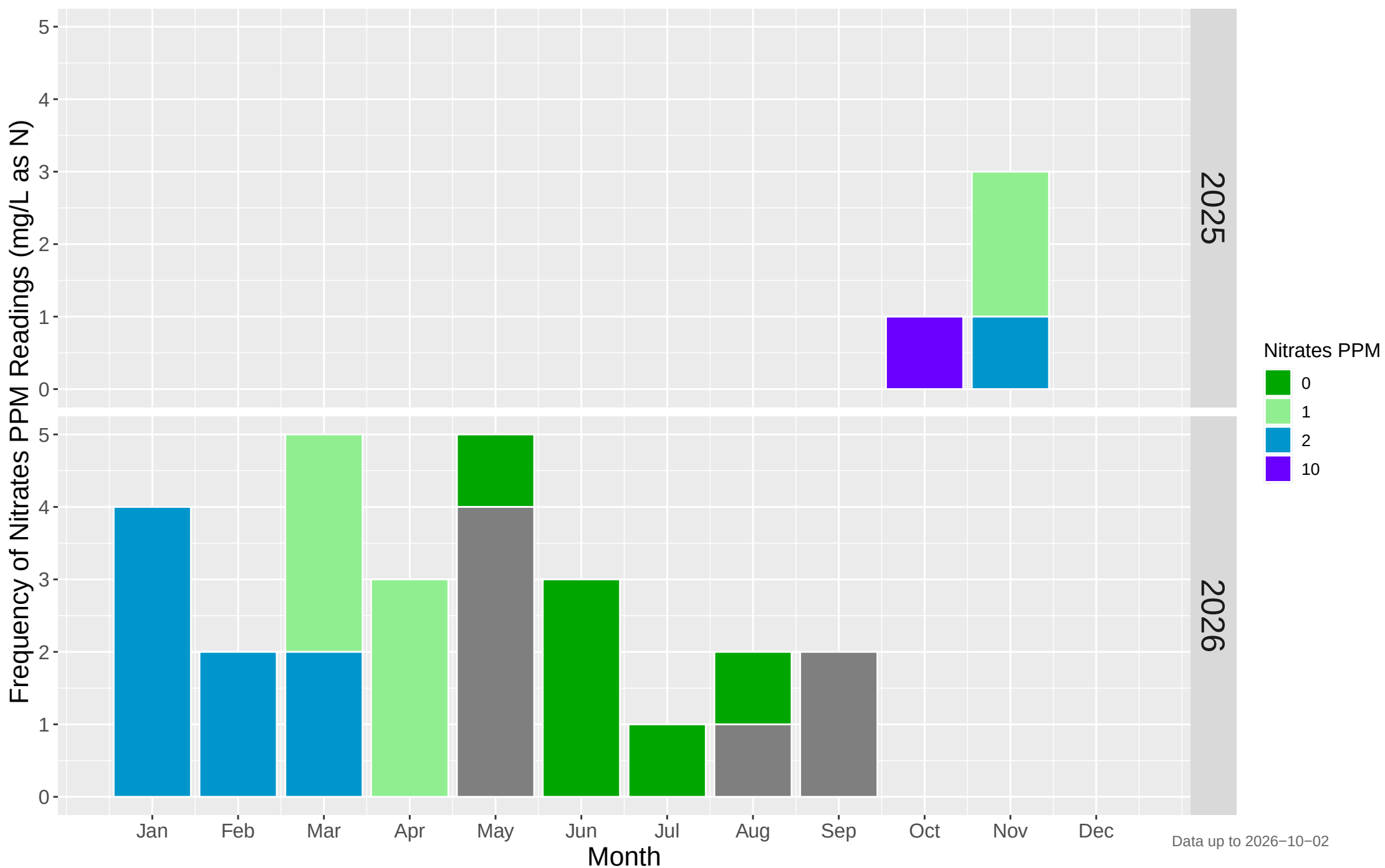
SafeAvon Phosphates – By Month

Stowe River – Napton on the Hill – Sewage Works Footbridge



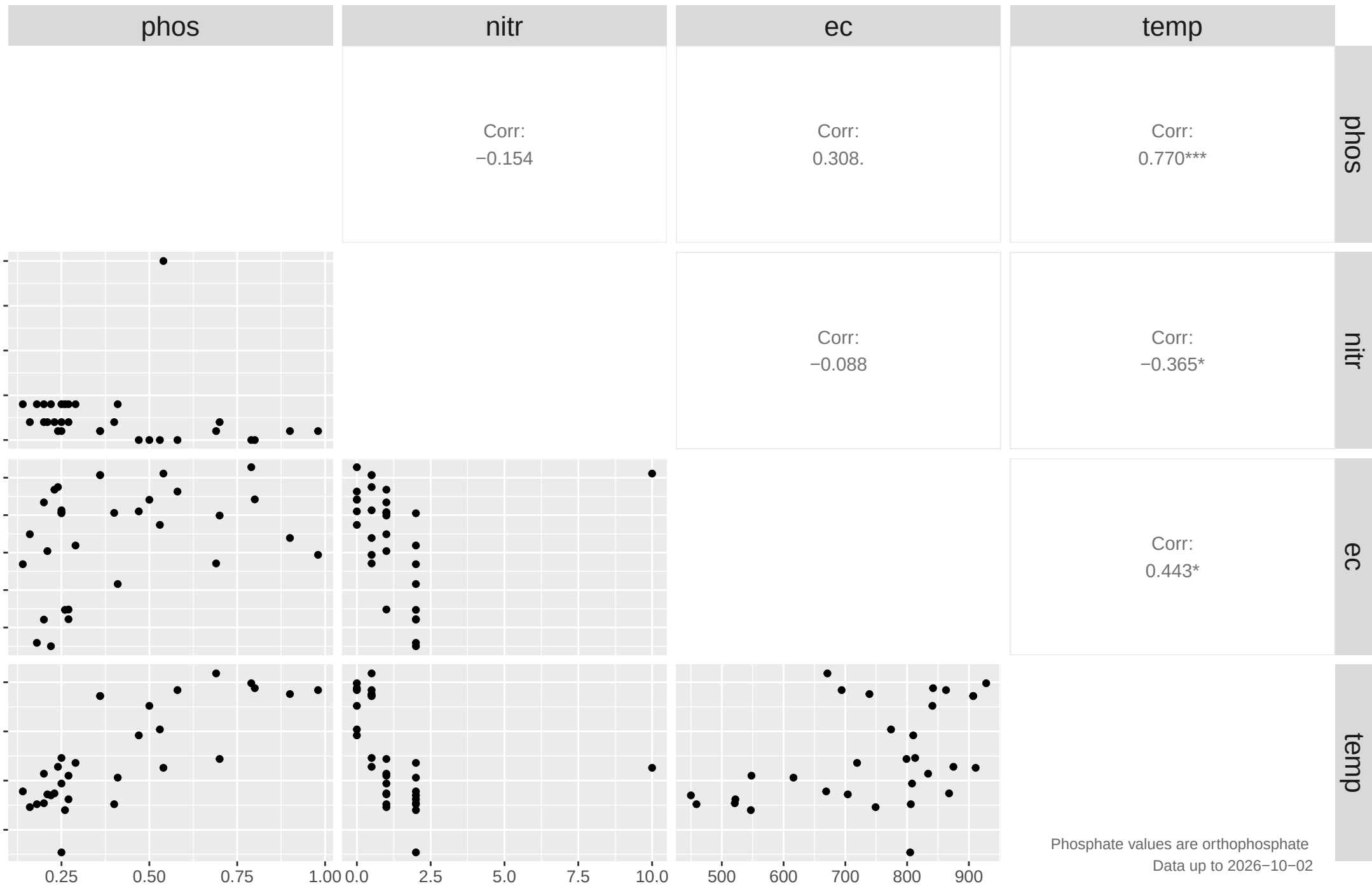
SafeAvon Nitrates By Month

Stowe River – Napton on the Hill – Sewage Works Footbridge



Pairwise Testing Variables Relationships

Stowe River – Napton on the Hill – Sewage Works Footbridge



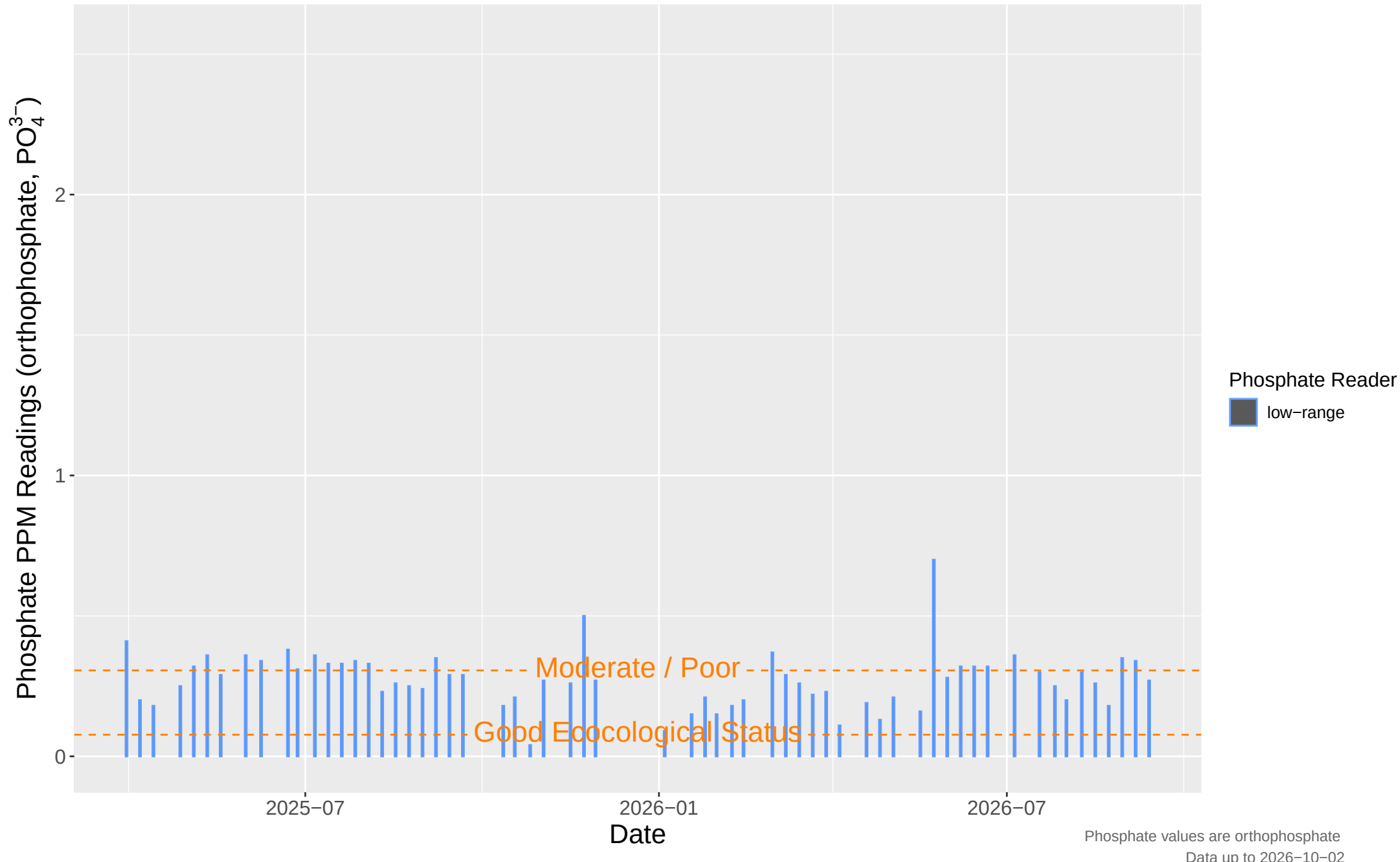
Site: Stowe River – Southam – Welsh Rd E

Start Date: 2025-03-30 | Most Recent: 2026-09-13 | Total Samples: 63 | 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 25	8		0.18	0.30	0.41		1.0	1.5	5.0		738	776	838		8.9	13.3	21.2
Summer 25	12		0.23	0.33	0.38		1.0	1.0	2.0		709	771	853		14.6	18.4	21.5
Autumn 25	11		0.04	0.27	0.50		1.0	1.5	10.0		766	861	942		7.7	10.4	18.2
Winter 25-26	6		0.09	0.16	0.21		5.0	5.0	10.0		476	582	888		1.4	6.7	8.3
Spring 26	13		0.11	0.23	0.37		0.5	2.0	10.0		576	717	793		7.8	11.7	19.9
Summer 26	11		0.18	0.30	0.36		0.0	0.5	2.0		705	769	860		15.8	19.7	22.2
Autumn 26	2		0.27	0.31	0.34		0.5	0.5	0.5		732	771	810		17.4	19.0	20.6

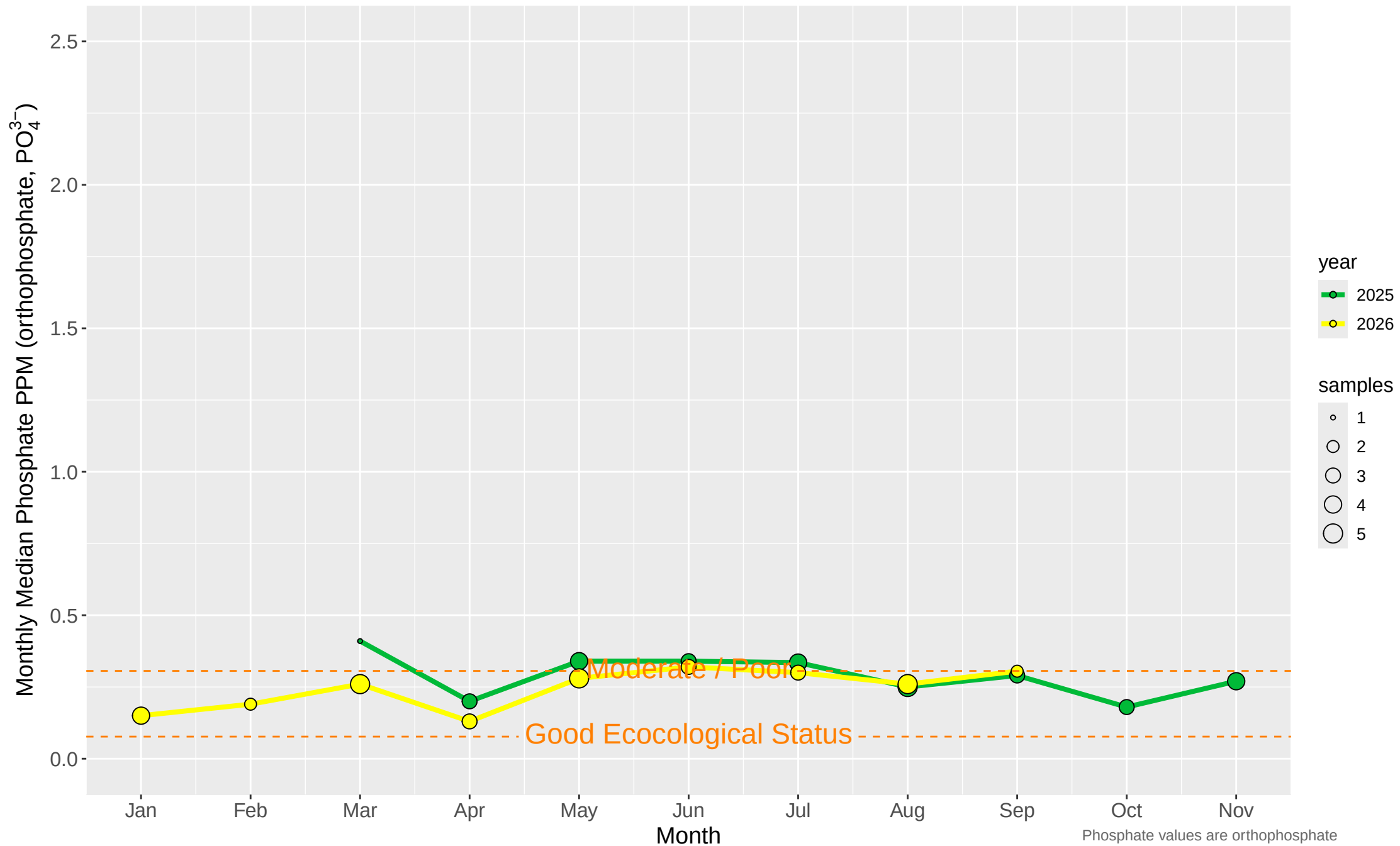
SafeAvon Phosphates – Individual Readings

Stowe River – Southam – Welsh Rd E



SafeAvon Phosphates – By Month

Stowe River – Southam – Welsh Rd E

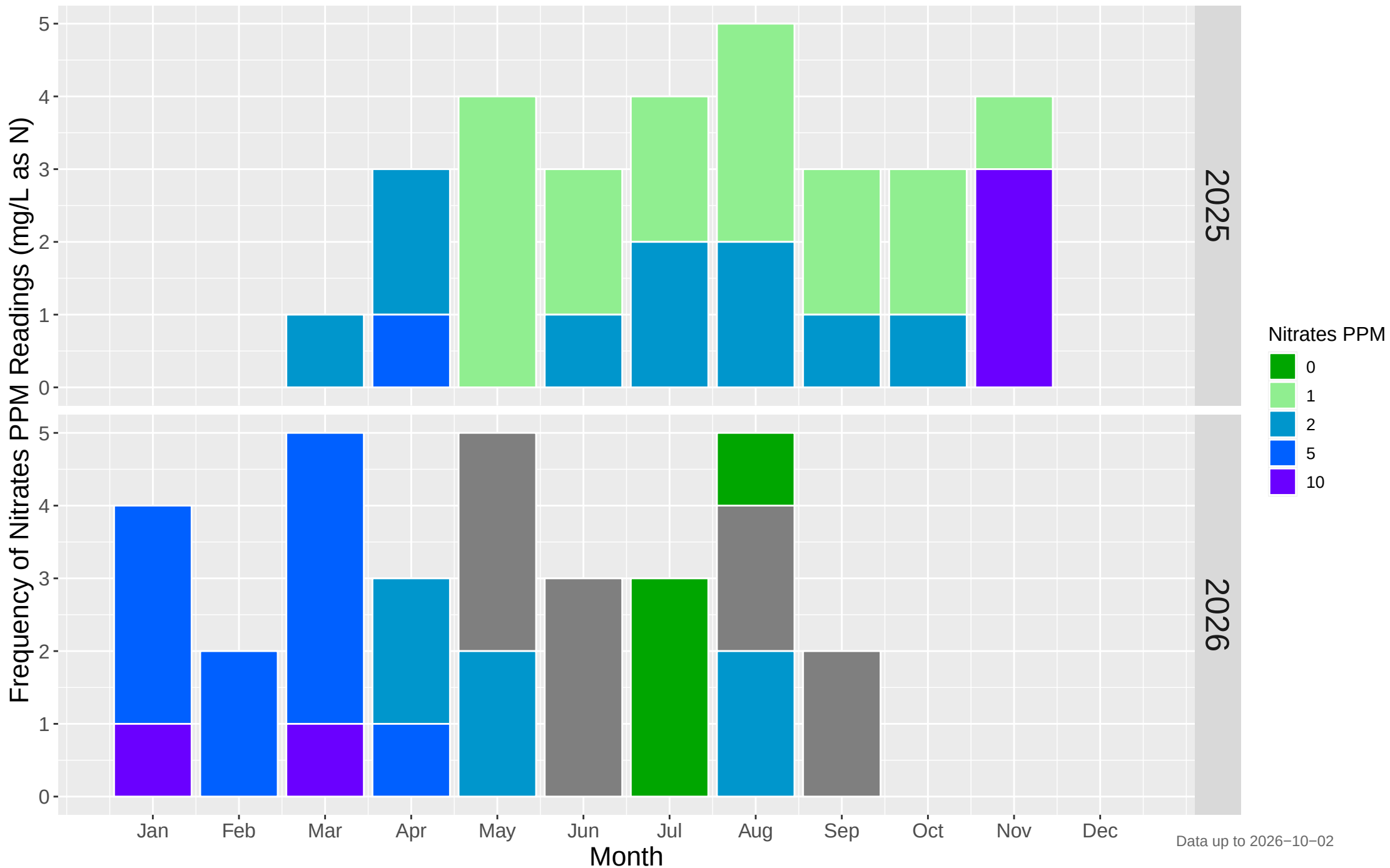


Phosphate values are orthophosphate

Data up to 2026-10-02

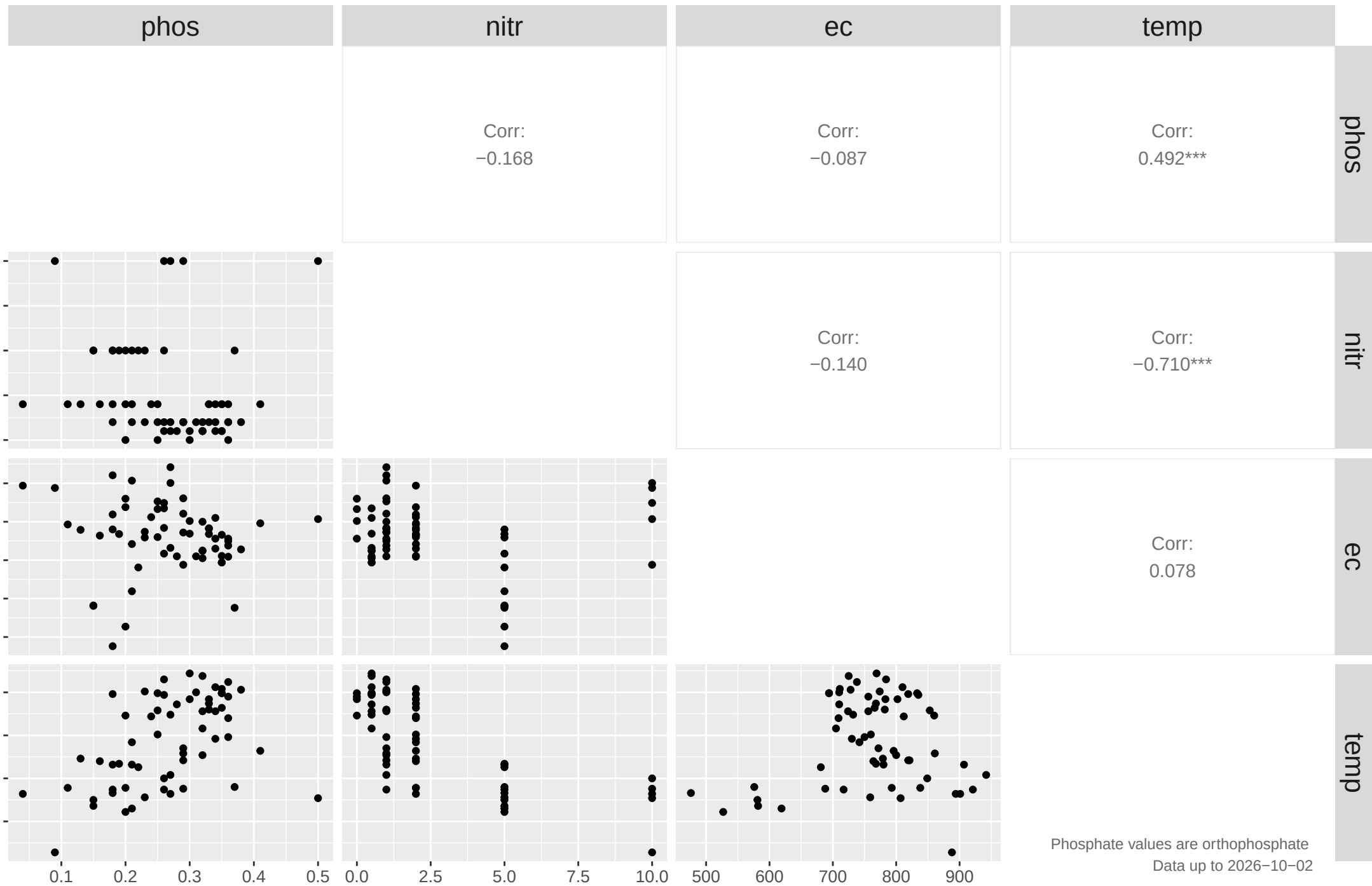
SafeAvon Nitrates By Month

Stowe River – Southam – Welsh Rd E



Pairwise Testing Variables Relationships

Stowe River – Southam – Welsh Rd E



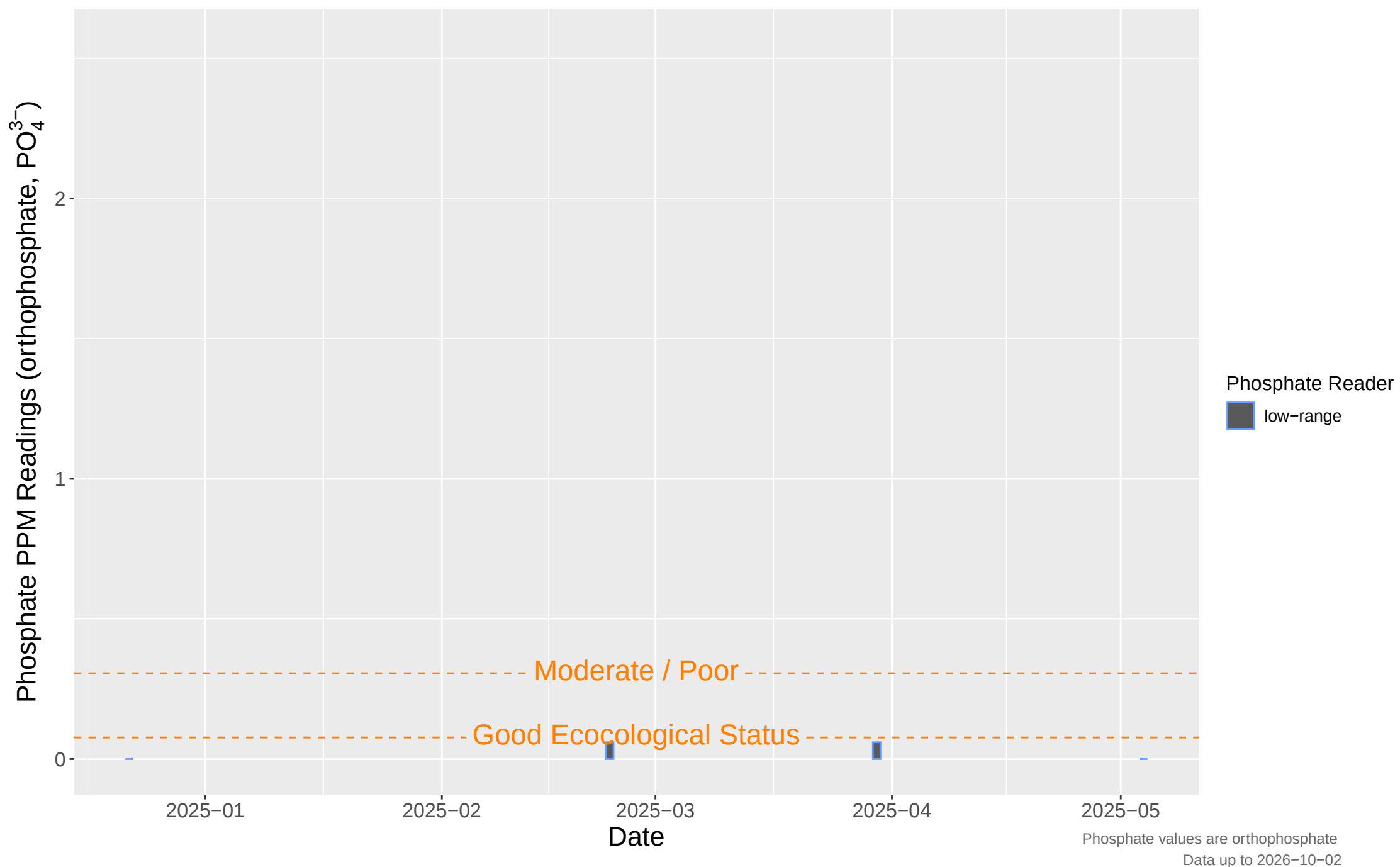
Site: Stowe River – Napton on the Hill – Howcombe Allotments

Start Date: 2024-12-22 | Most Recent: 2025-06-22 | Total Samples: 5 | 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
Winter 24-25	2		0	0.03	0.06		5	5	5		803	827	851		7.7	8.5	9.3
Spring 25	2		0	0.03	0.06		2	2	2		727	730	733		10.5	11.0	11.5
Summer 25	1		NA	NA	NA		2	2	2		713	713	713		15.5	15.5	15.5

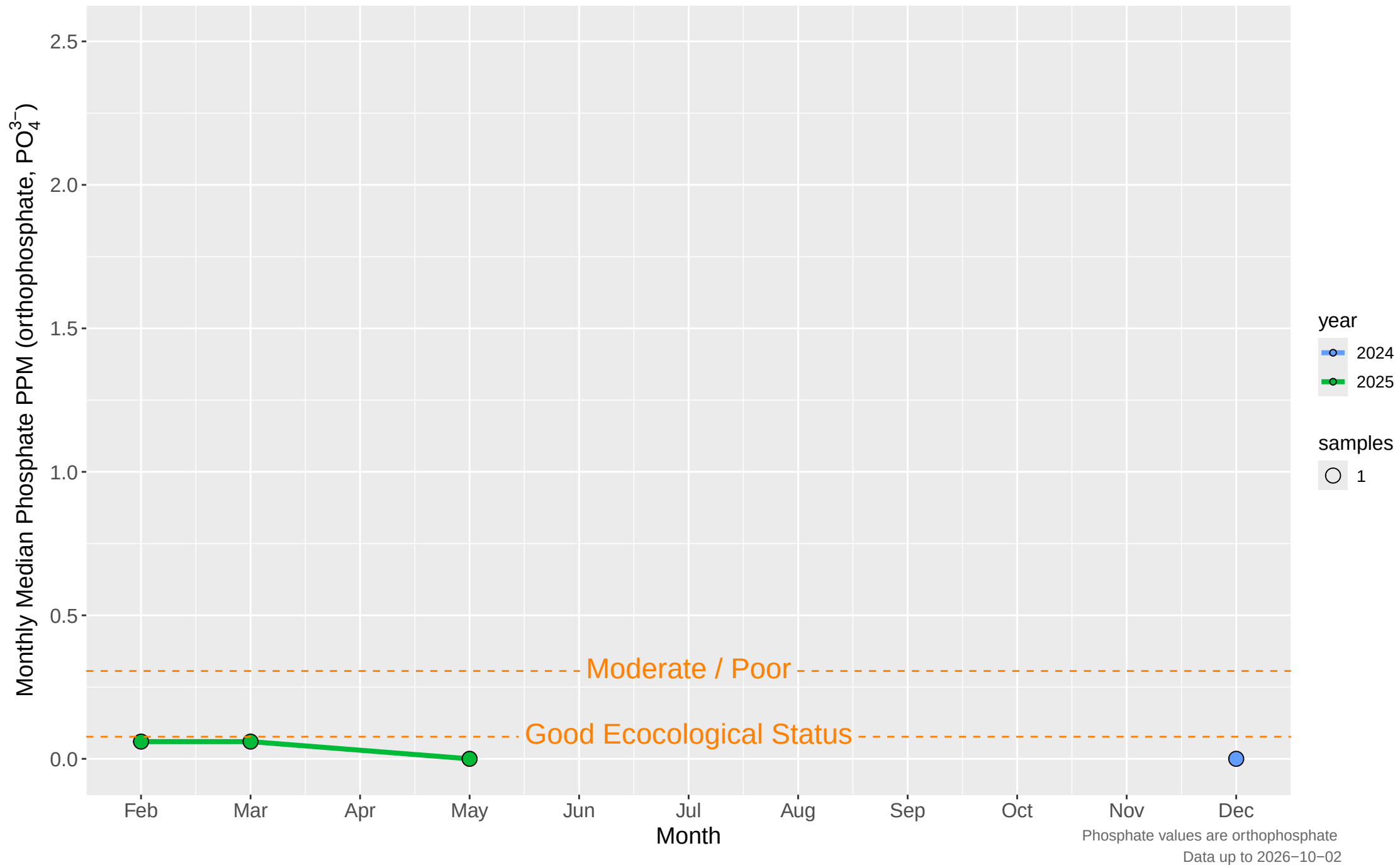
SafeAvon Phosphates – Individual Readings

Stowe River – Napton on the Hill – Howcombe Allotments



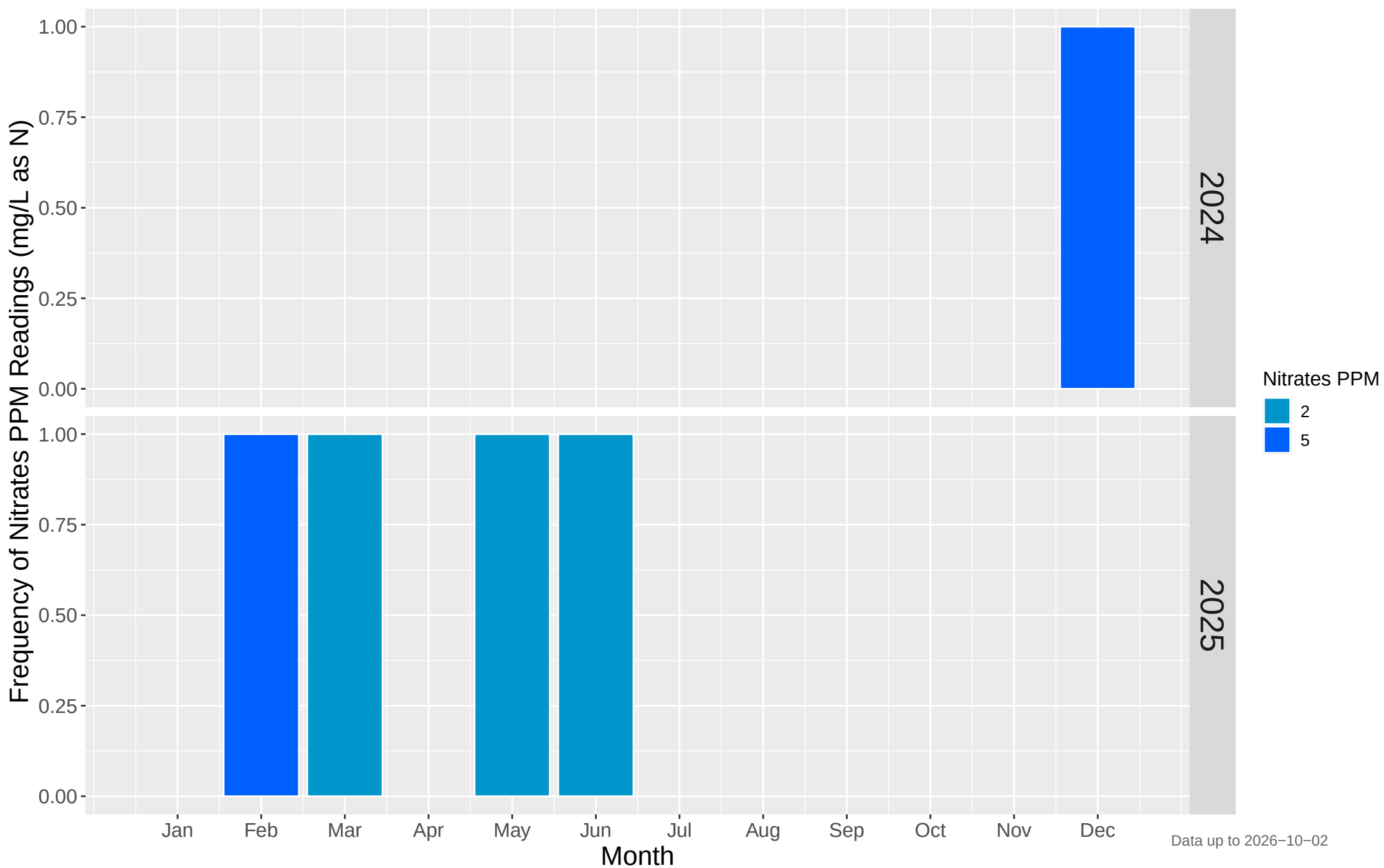
SafeAvon Phosphates – By Month

Stowe River – Napton on the Hill – Howcombe Allotments



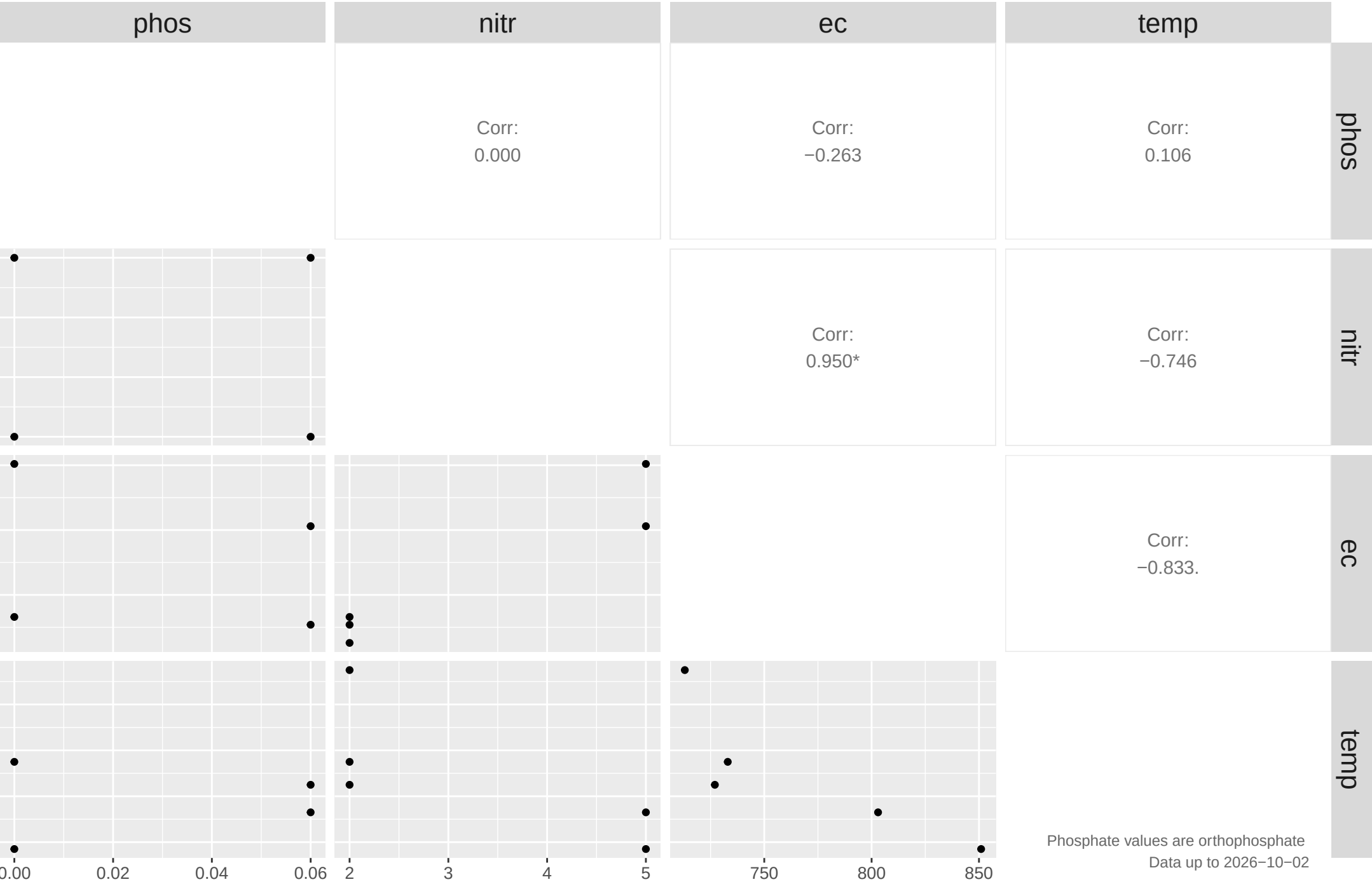
SafeAvon Nitrates By Month

Stowe River – Napton on the Hill – Howcombe Allotments



Pairwise Testing Variables Relationships

Stowe River – Napton on the Hill – Howcombe Allotments



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