

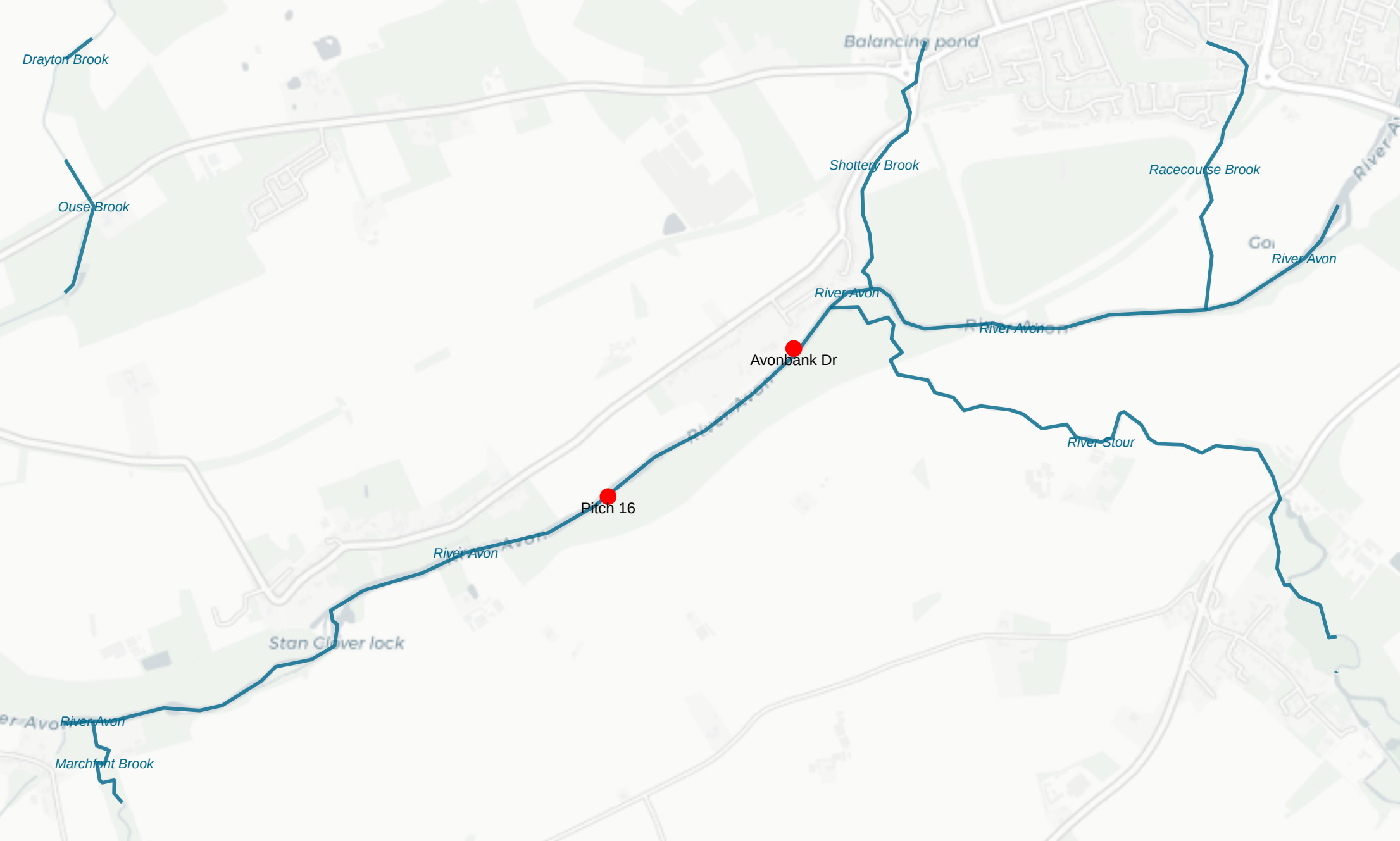
SafeAvon Nutrient Testing Report: Luddington

SafeAvon Sites By Waterway

Avon River

- . Luddington – Avonbank Dr
- . Luddington – Pitch 16

SafeAvon Locations in Luddington

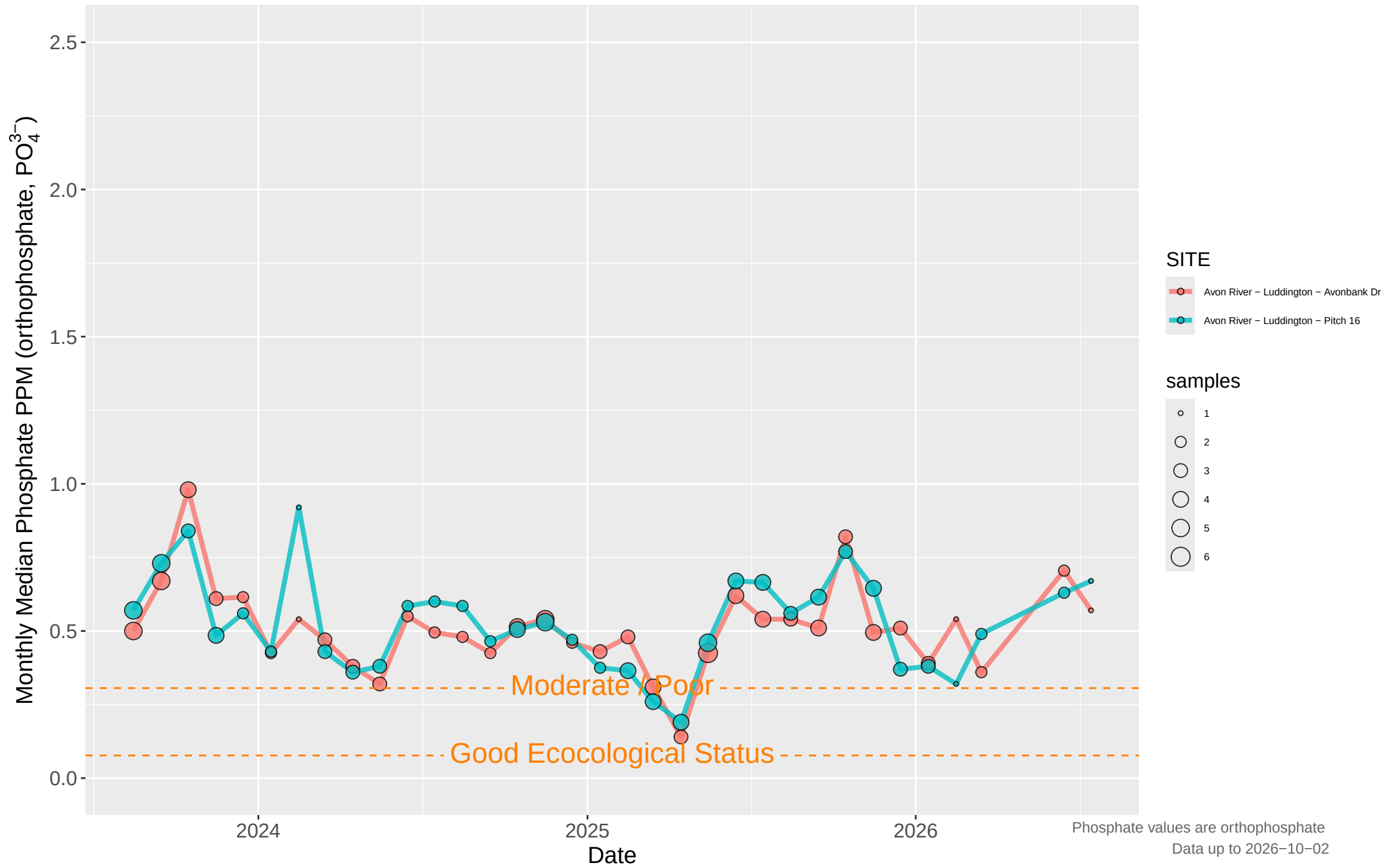


Summary for sites in Luddington

SITE	Start	Most Recent	Samples	Distinct Volunteers	Median Phosphates PPM	Median Nitrates PPM
Avon River – Luddington – Avonbank Dr	2023-08-01	2026-07-26	103	6	0.50	10
Avon River – Luddington – Pitch 16	2023-08-01	2026-07-26	103	6	0.55	10

SafeAvon Phosphates – By Month

Luddington



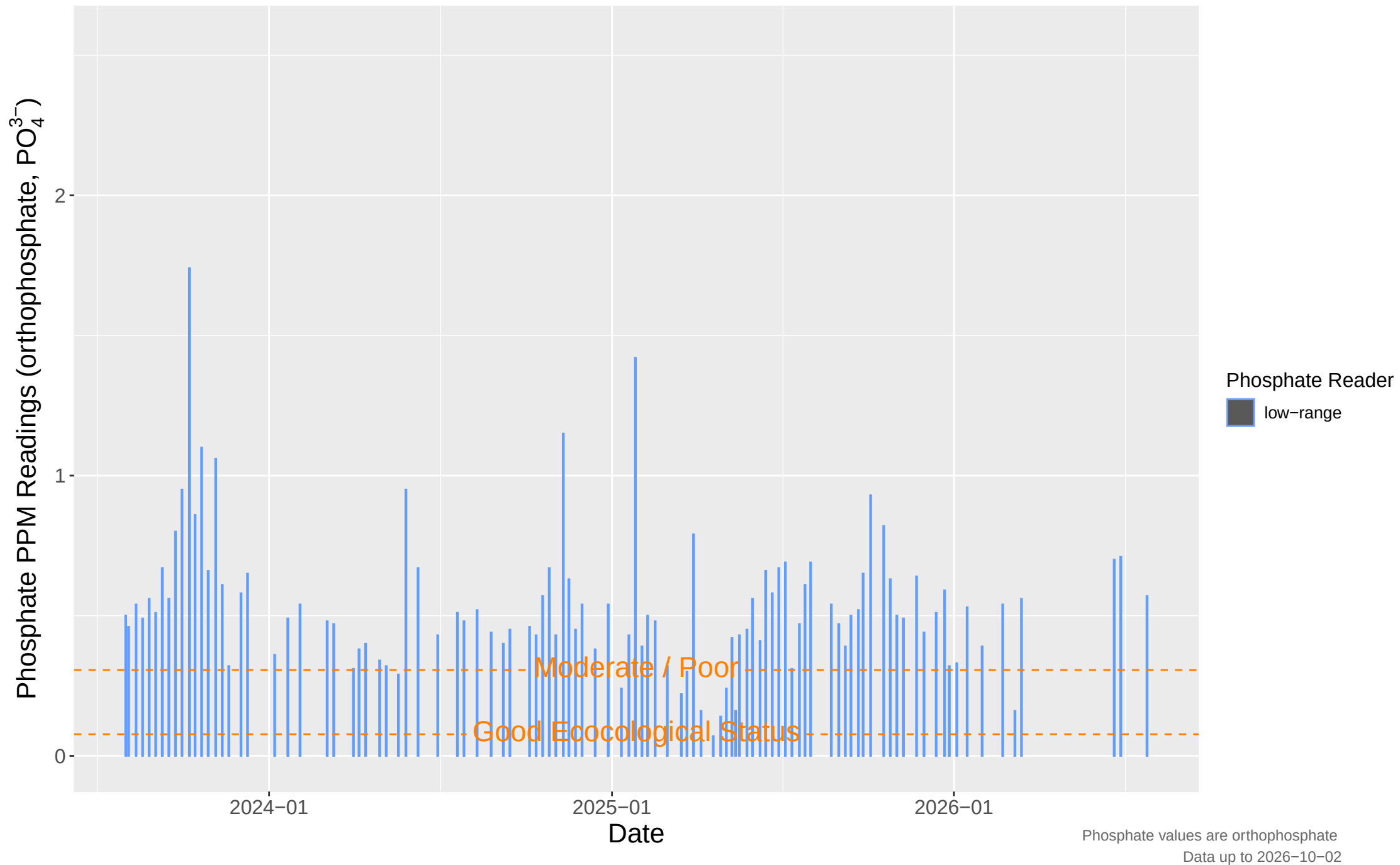
Site: Avon River – Luddington – Avonbank Dr

Start Date: 2023-08-01 | Most Recent: 2026-07-26 | Total Samples: 103 | Distinct Volunteers: 6

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	5		0.46	0.50	0.56		10	10	10		893	919	1000		18.8	20.0	20.7
Autumn 23	12		0.32	0.74	1.74		5	10	20		454	878	1030		9.3	17.2	23.4
Winter 23-24	5		0.36	0.54	0.65		2	5	10		615	902	976		8.1	10.3	15.2
Spring 24	9		0.29	0.38	0.95		2	10	10		594	802	908		10.1	15.8	21.3
Summer 24	6		0.43	0.50	0.67		5	5	10		856	976	1120		17.2	21.5	23.0
Autumn 24	11		0.40	0.46	1.15		2	5	10		602	815	1100		7.4	14.0	20.4
Winter 24-25	8		0.24	0.45	1.42		2	5	10		765	847	969		4.6	8.3	11.2
Spring 25	13		0.07	0.30	0.79		5	20	20		710	999	1110		9.3	16.6	22.4
Summer 25	11		0.31	0.58	0.69		10	20	20		816	1040	1101		20.4	21.6	25.2
Autumn 25	11		0.39	0.52	0.93		5	10	20		808	935	1040		7.5	14.6	20.8
Winter 25-26	7		0.32	0.51	0.59		5	10	10		623	740	1010		5.7	8.5	12.4
Spring 26	2		0.16	0.36	0.56		5	5	5		689	766	842		9.3	9.5	9.7
Summer 26	3		0.57	0.70	0.71		5	10	10		964	1005	1009		21.3	23.8	25.2

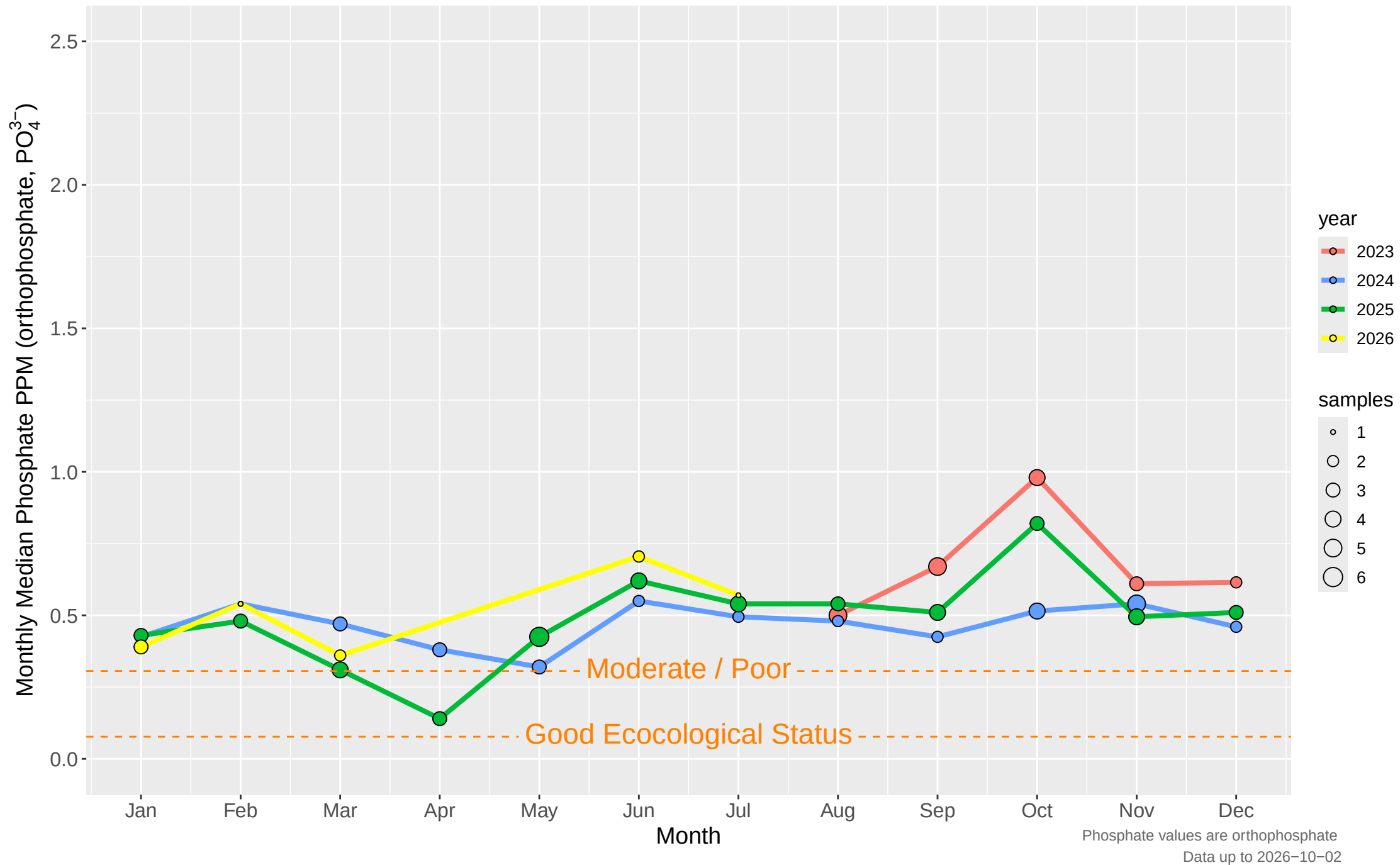
SafeAvon Phosphates – Individual Readings

Avon River – Luddington – Avonbank Dr



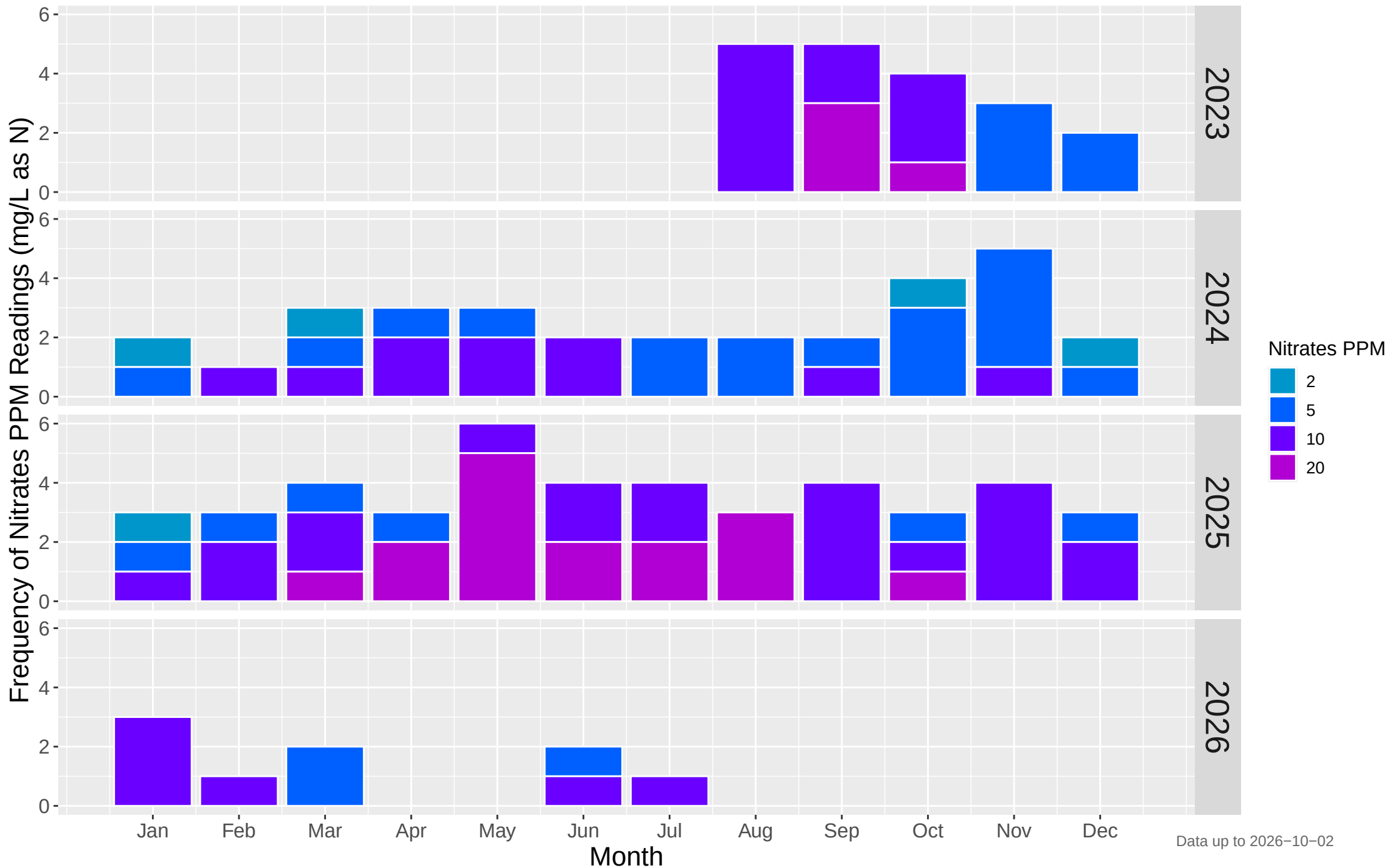
SafeAvon Phosphates – By Month

Avon River – Luddington – Avonbank Dr



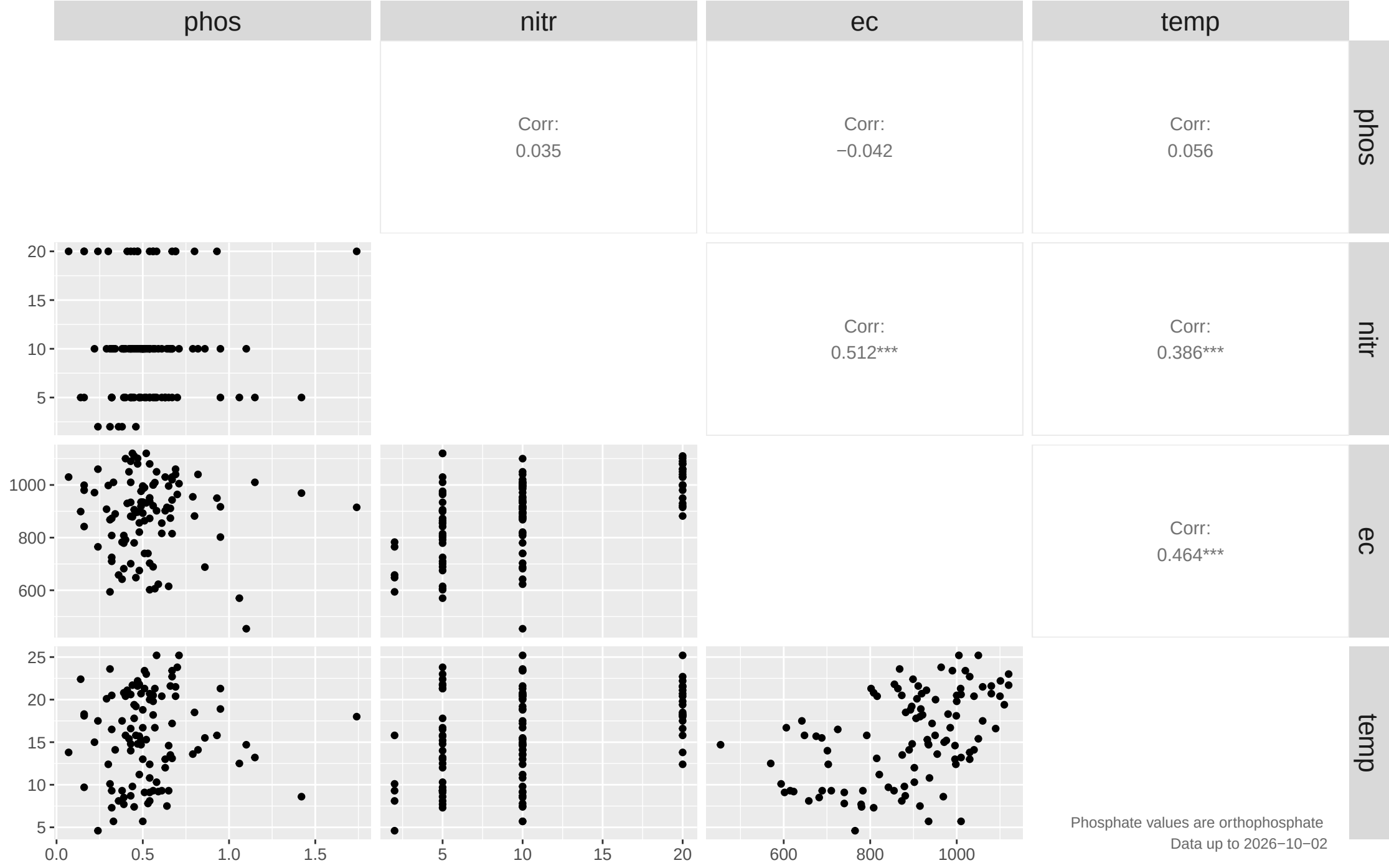
SafeAvon Nitrates By Month

Avon River – Luddington – Avonbank Dr



Pairwise Testing Variables Relationships

Avon River – Luddington – Avonbank Dr



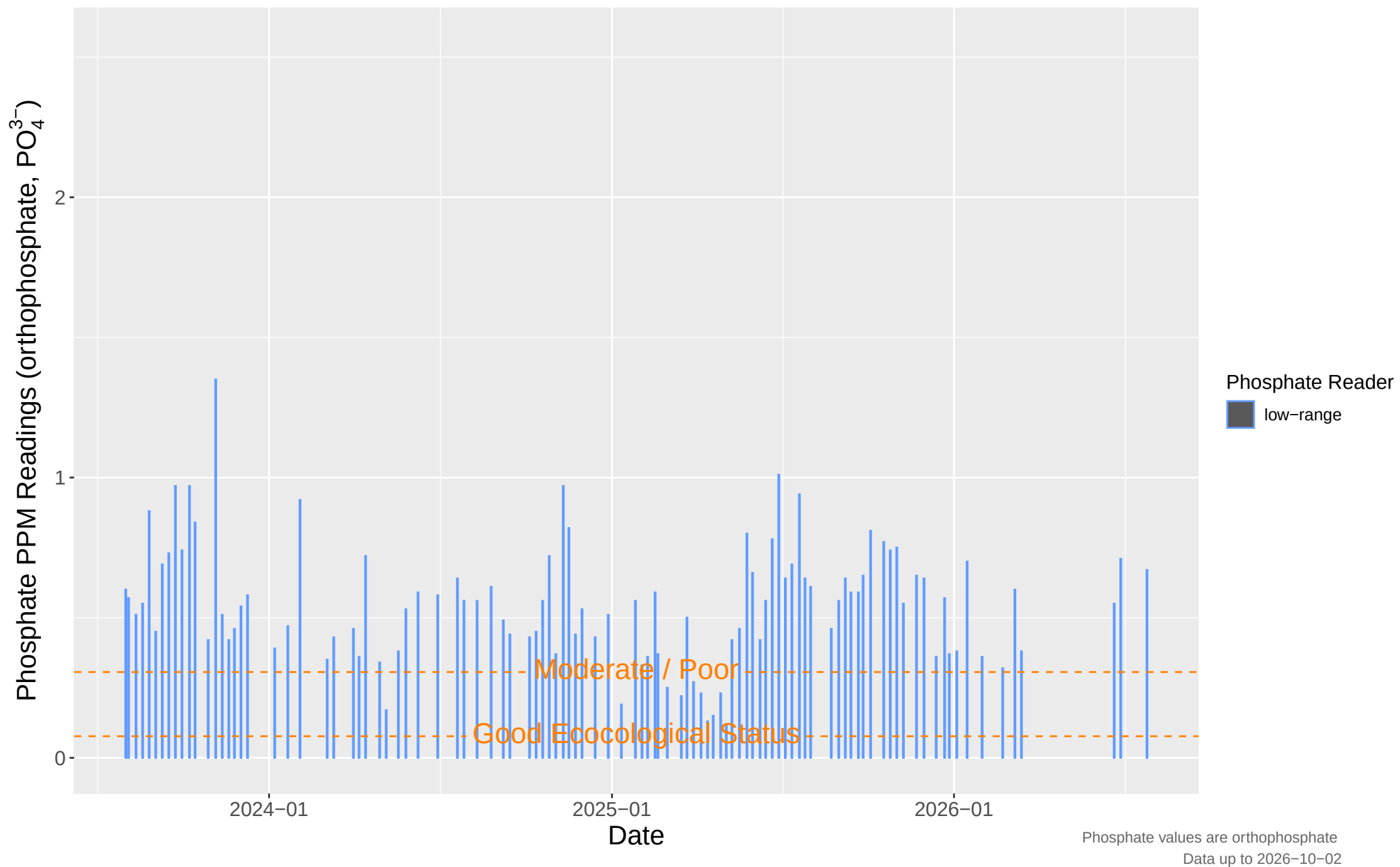
Site: Avon River – Luddington – Pitch 16

Start Date: 2023-08-01 | Most Recent: 2026-07-26 | Total Samples: 103 | Distinct Volunteers: 6

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	5		0.51	0.57	0.88		10	10.0	10		887	929	981		18.5	19.1	20.2
Autumn 23	12		0.42	0.71	1.35		5	10.0	20		565	875	1010		9.3	16.0	24.4
Winter 23-24	5		0.39	0.54	0.92		2	5.0	5		605	702	933		6.2	10.3	14.6
Spring 24	9		0.17	0.38	0.72		2	5.0	10		586	790	904		11.1	15.8	22.0
Summer 24	6		0.56	0.58	0.64		5	7.5	10		839	945	1010		17.4	21.4	25.1
Autumn 24	11		0.37	0.49	0.97		2	5.0	10		561	784	1101		7.6	14.2	20.8
Winter 24-25	8		0.19	0.40	0.59		2	3.5	10		760	807	933		4.5	8.6	10.3
Spring 25	13		0.12	0.25	0.80		5	10.0	20		705	955	1070		8.7	17.2	23.2
Summer 25	11		0.42	0.64	1.01		10	10.0	20		816	1030	1080		20.4	22.8	24.8
Autumn 25	11		0.55	0.65	0.81		5	10.0	20		724	934	1050		8.6	15.0	21.3
Winter 25-26	7		0.32	0.37	0.70		5	10.0	10		615	730	980		4.5	9.2	12.3
Spring 26	2		0.38	0.49	0.60		10	10.0	10		652	726	800		10.5	10.5	10.5
Summer 26	3		0.55	0.67	0.71		5	10.0	10		935	1001	1009		23.5	25.2	26.2

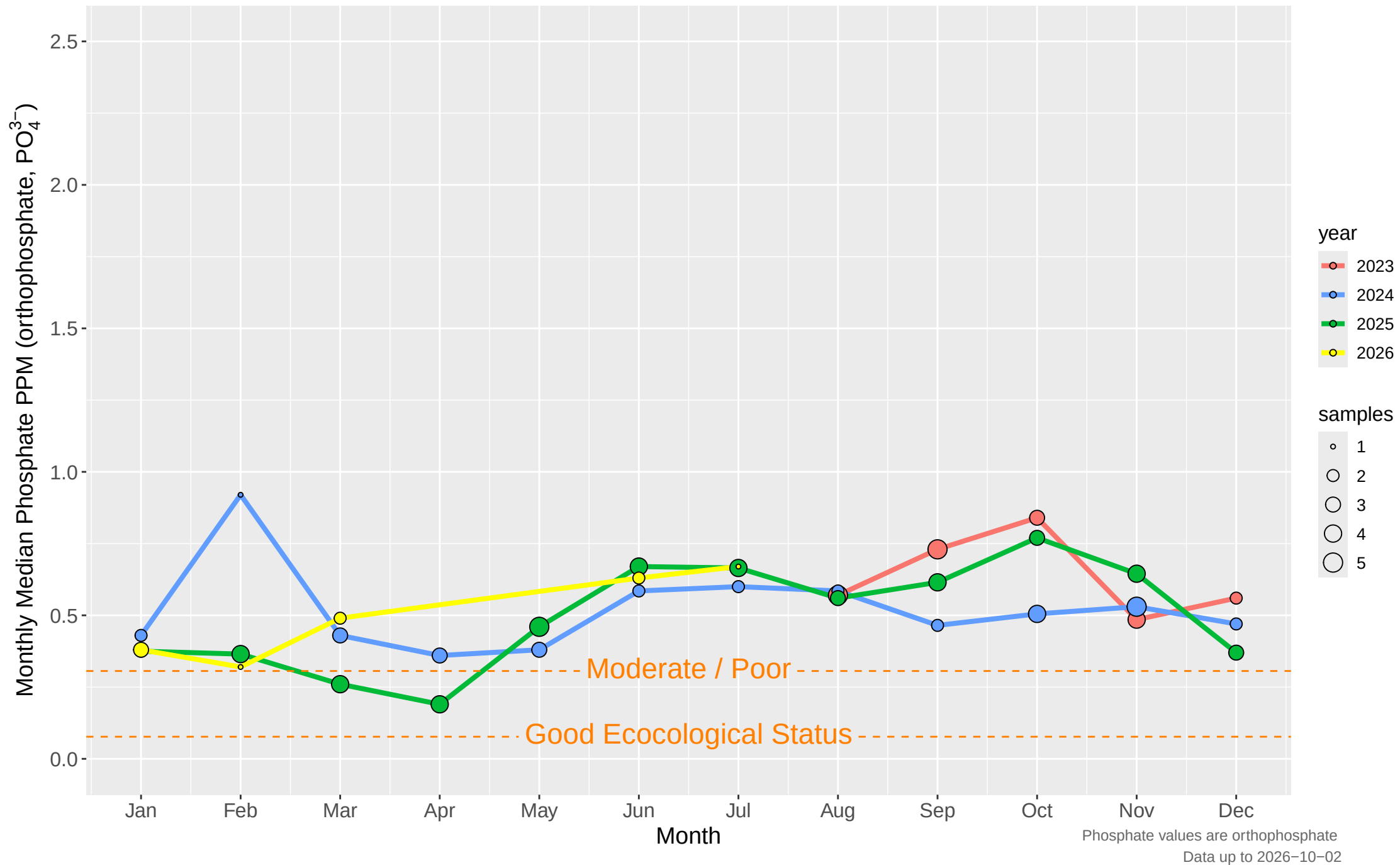
SafeAvon Phosphates – Individual Readings

Avon River – Luddington – Pitch 16



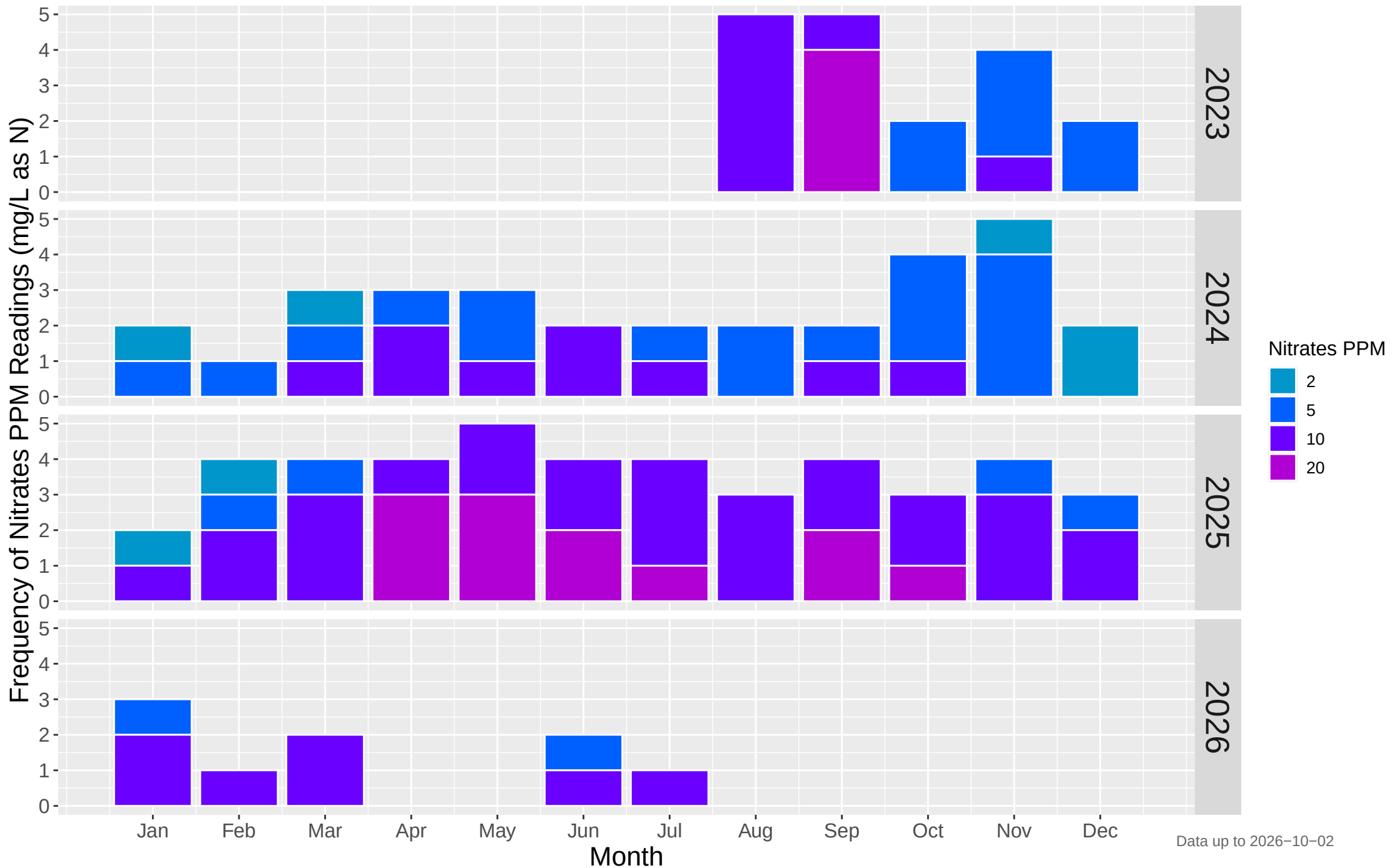
SafeAvon Phosphates – By Month

Avon River – Luddington – Pitch 16



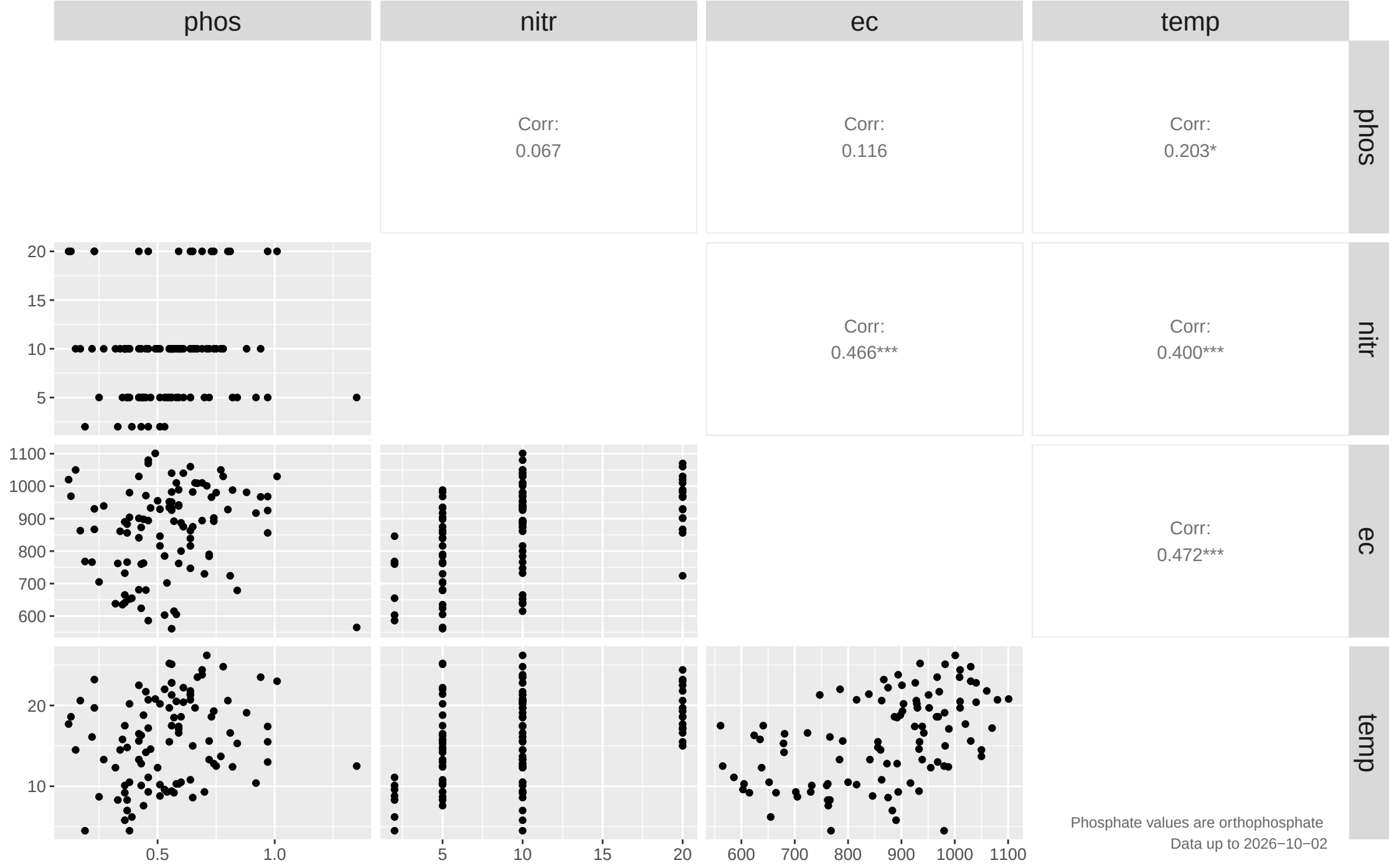
SafeAvon Nitrates By Month

Avon River – Luddington – Pitch 16



Pairwise Testing Variables Relationships

Avon River – Luddington – Pitch 16



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