

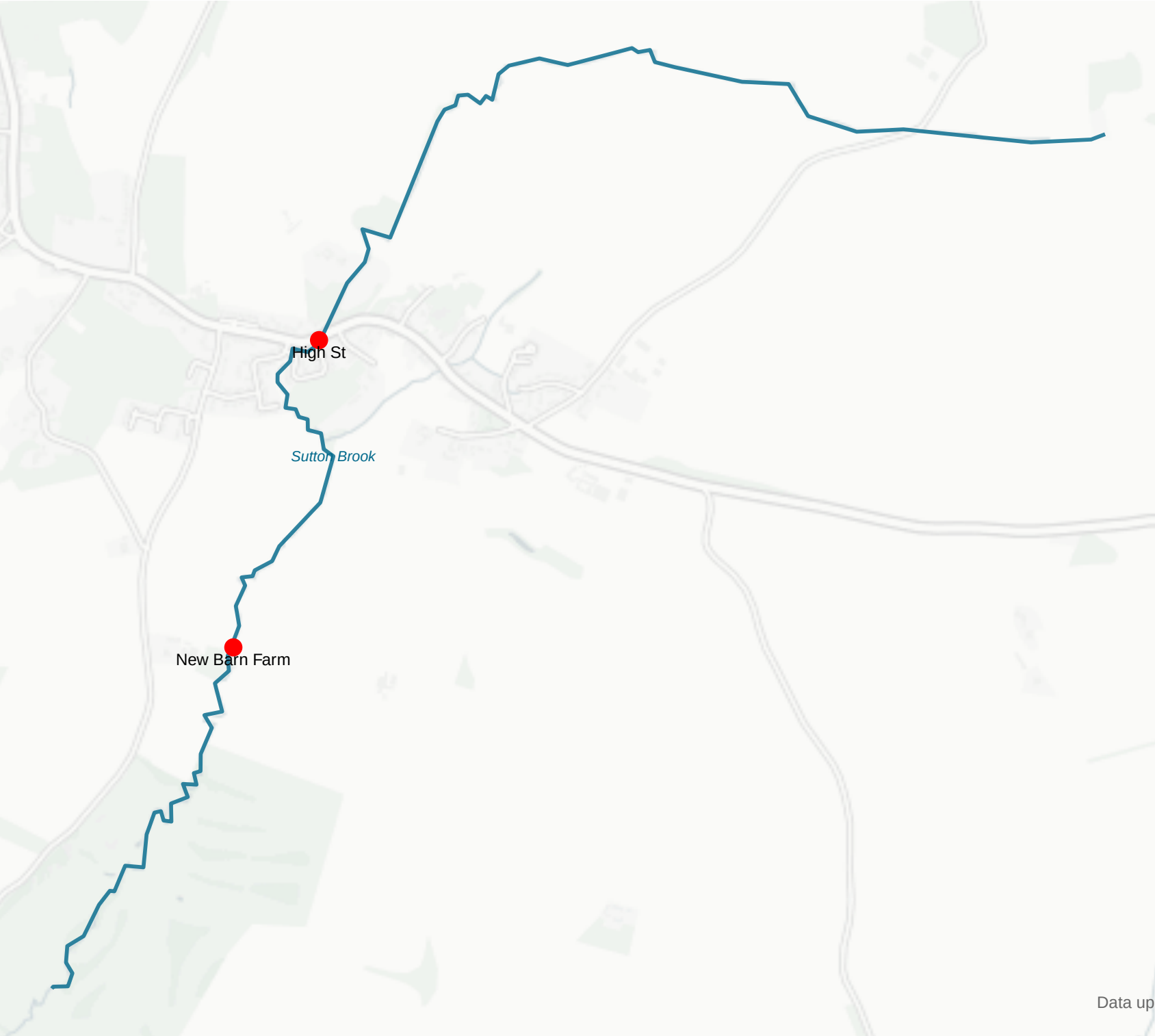
SafeAvon Nutrient Testing Report: Lower Brailes

SafeAvon Sites By Waterway

Sutton Brook

- . Lower Brailes – High St
- . Lower Brailes – New Barn Farm

SafeAvon Locations in Lower Brailes

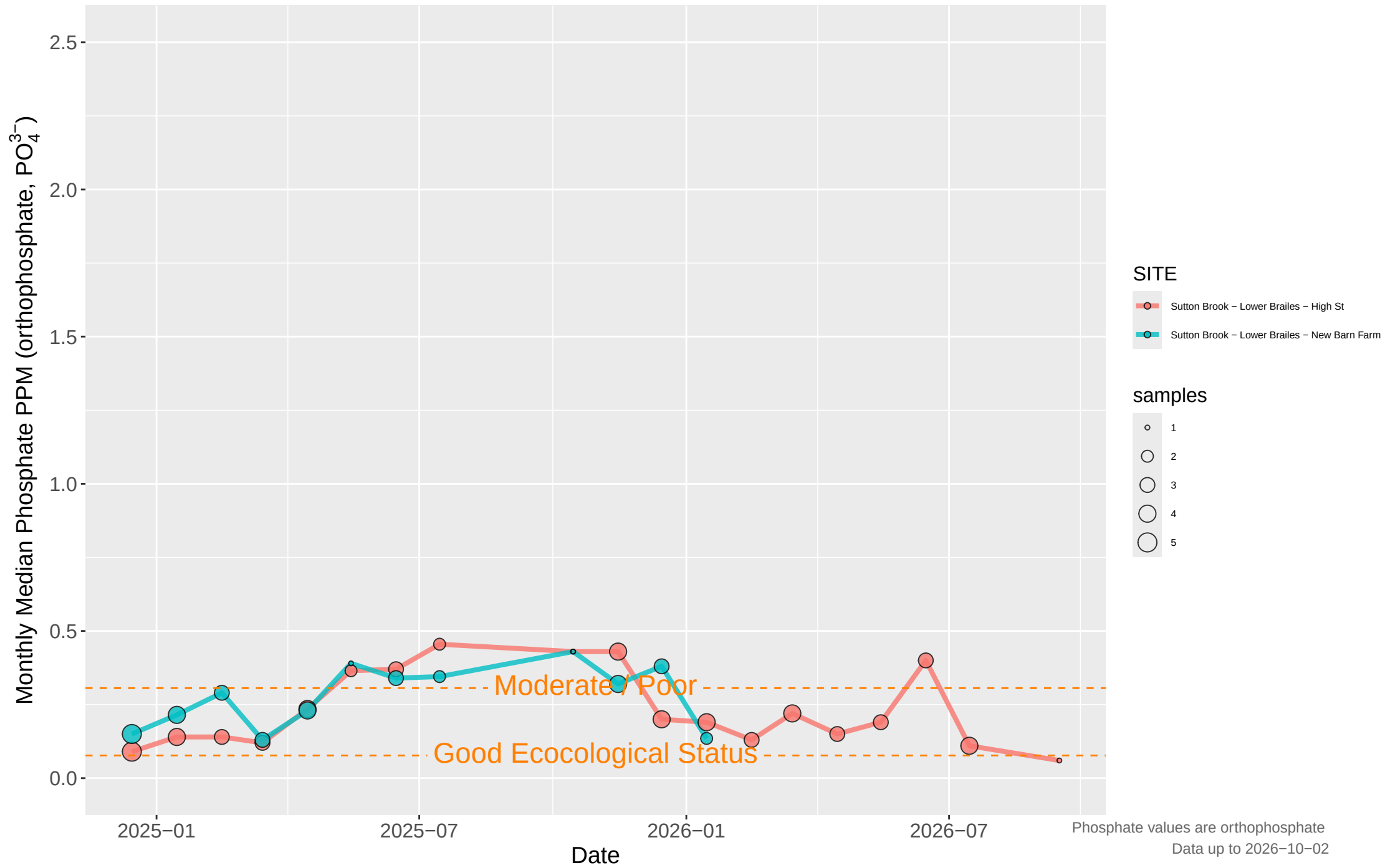


Summary for sites in Lower Brailes

SITE	Start	Most Recent	Samples	Distinct Volunteers	Median Phosphates PPM	Median Nitrates PPM
Sutton Brook – Lower Brailes – High St	2024-11-26	2026-09-29	81	6	0.185	5
Sutton Brook – Lower Brailes – New Barn Farm	2024-11-26	2026-01-13	48	6	0.270	5

SafeAvon Phosphates – By Month

Lower Brailes



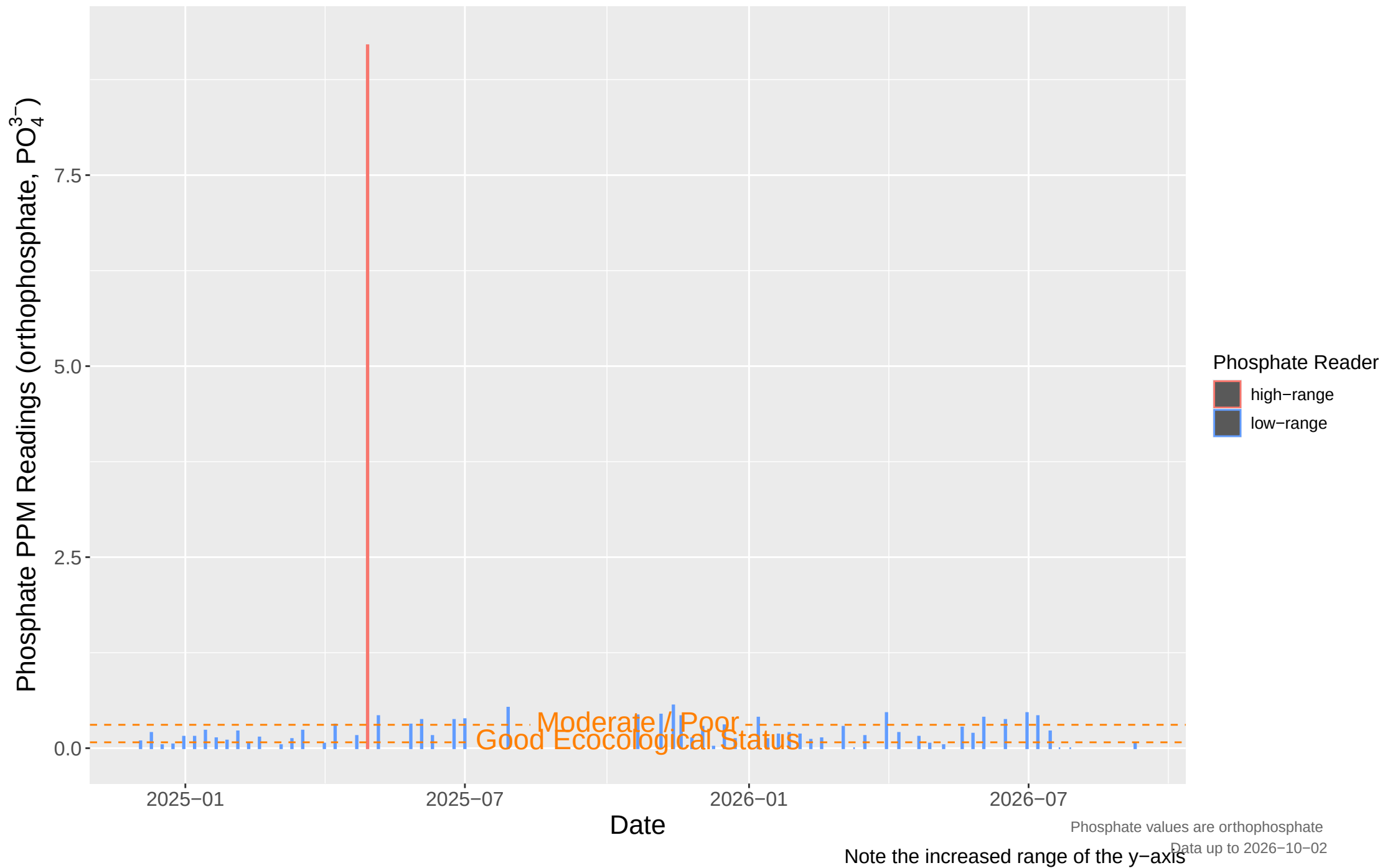
Site: Sutton Brook – Lower Brailes – High St

Start Date: 2024-11-26 | Most Recent: 2026-09-29 | Total Samples: 81 | 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
Autumn 24	1		NA	NA	NA		5	5	5		503	503	503		9.0	9.0	9.0
Winter 24-25	12		0.04	0.14	0.23		5	5	10		354	571	589		5.3	8.6	11.0
Spring 25	10		0.04	0.23	9.20		5	5	5		531	558	605		10.7	13.9	19.4
Summer 25	9		0.16	0.37	0.53		2	5	10		563	605	646		16.2	19.1	24.0
Autumn 25	12		0.13	0.43	0.56		1	5	10		56	600	713		6.8	13.2	14.6
Winter 25-26	11		0.02	0.18	0.40		2	5	20		291	480	669		5.3	9.0	12.0
Spring 26	11		0.00	0.17	0.46		2	5	5		508	554	578		10.8	12.9	21.3
Summer 26	11		0.00	0.37	0.46		0	2	5		0	603	661		0.0	19.0	21.7
Autumn 26	4		0.06	0.06	0.06		0	0	0		672	672	672		15.6	15.6	15.6

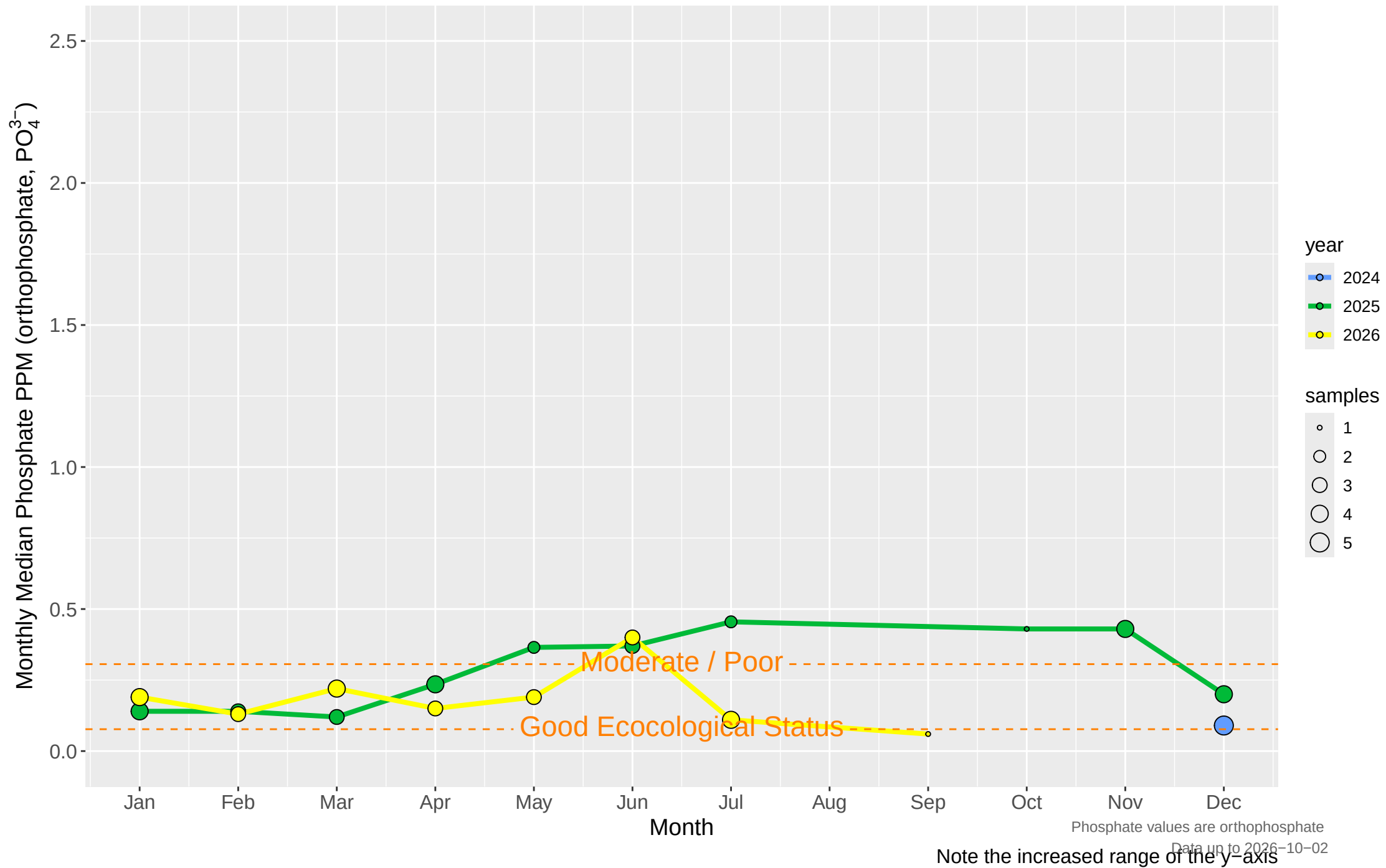
SafeAvon Phosphates – Individual Readings

Sutton Brook – Lower Brailes – High St



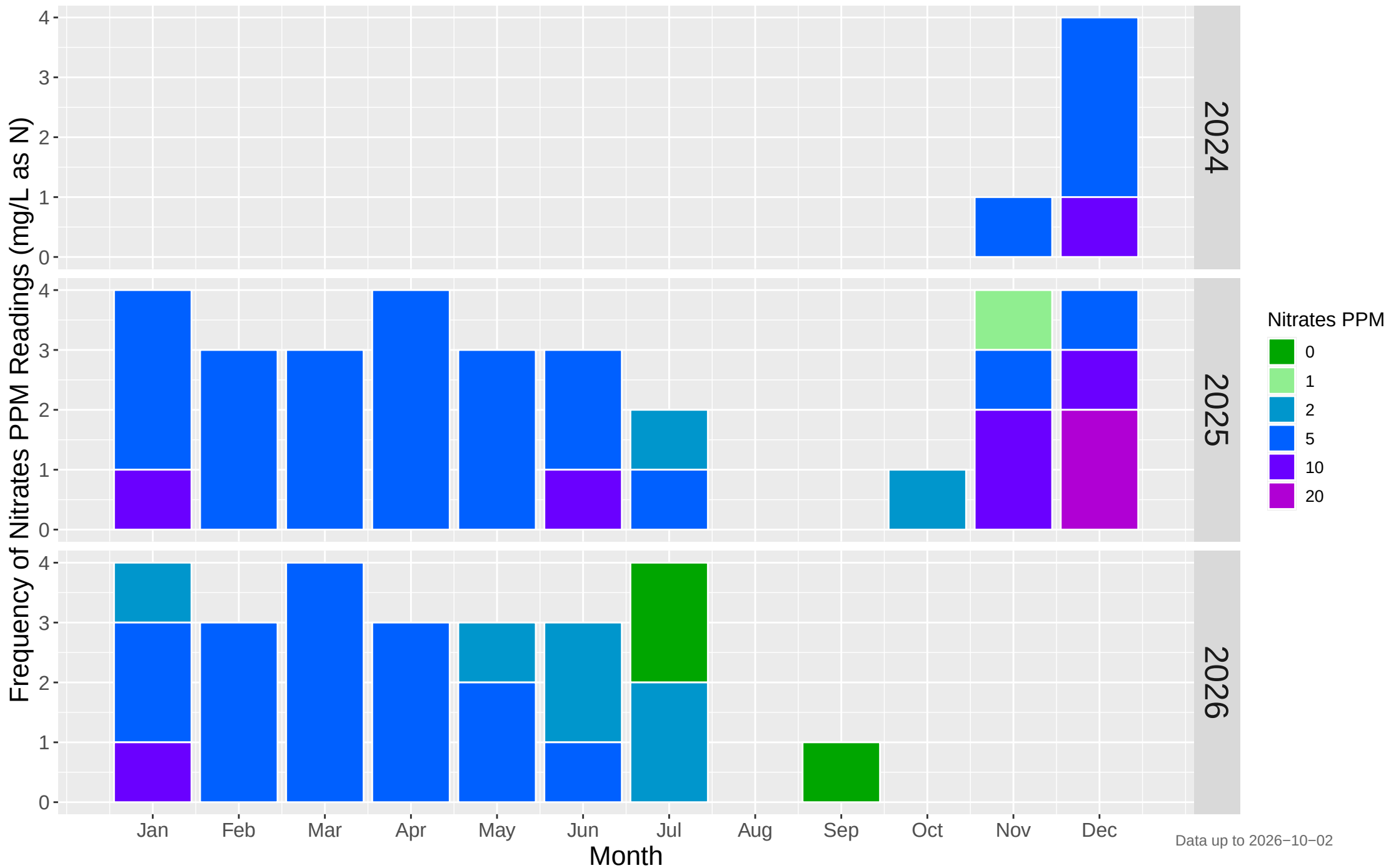
SafeAvon Phosphates – By Month

Sutton Brook – Lower Brailes – High St



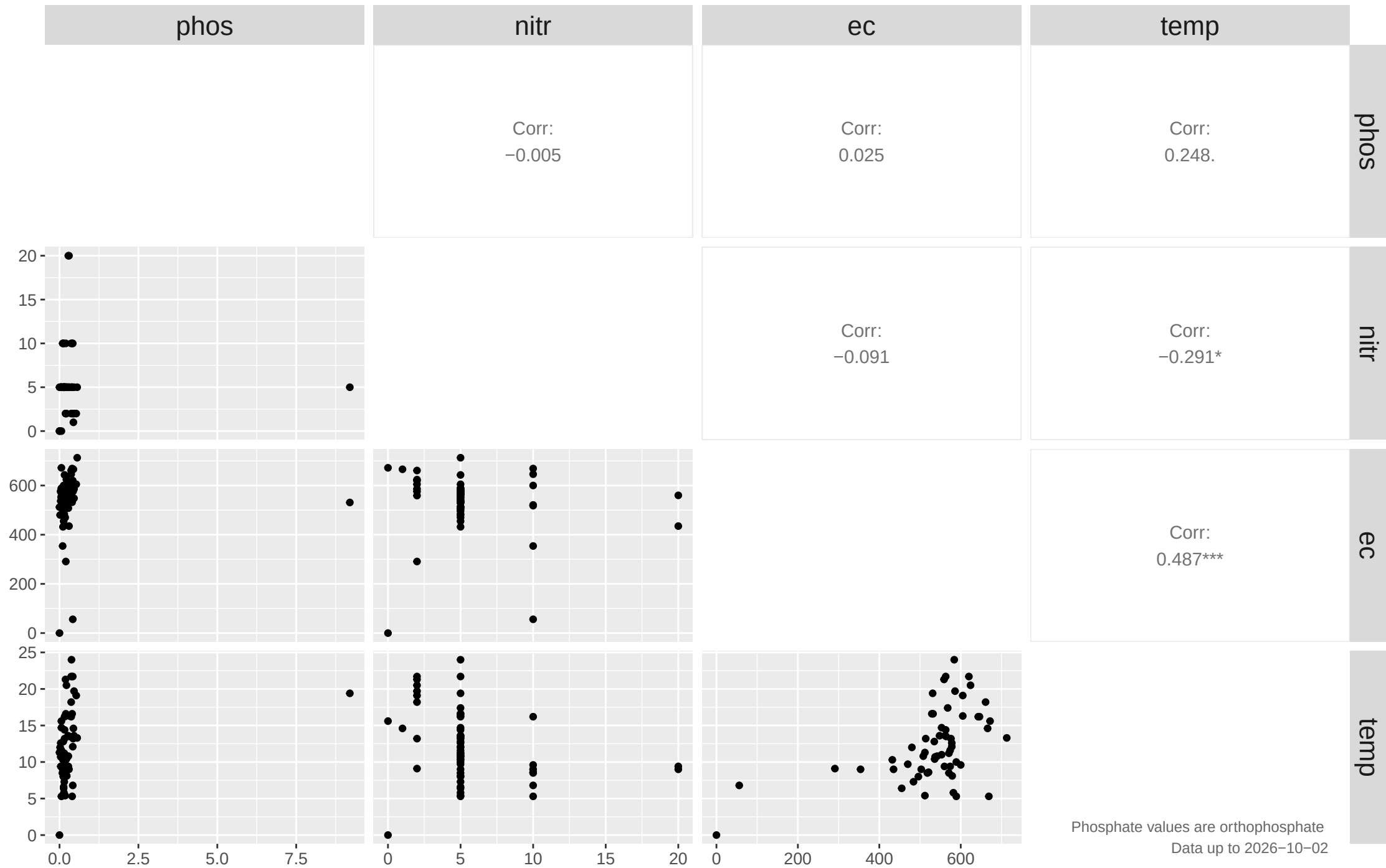
SafeAvon Nitrates By Month

Sutton Brook – Lower Brailes – High St



Pairwise Testing Variables Relationships

Sutton Brook – Lower Brailes – High St



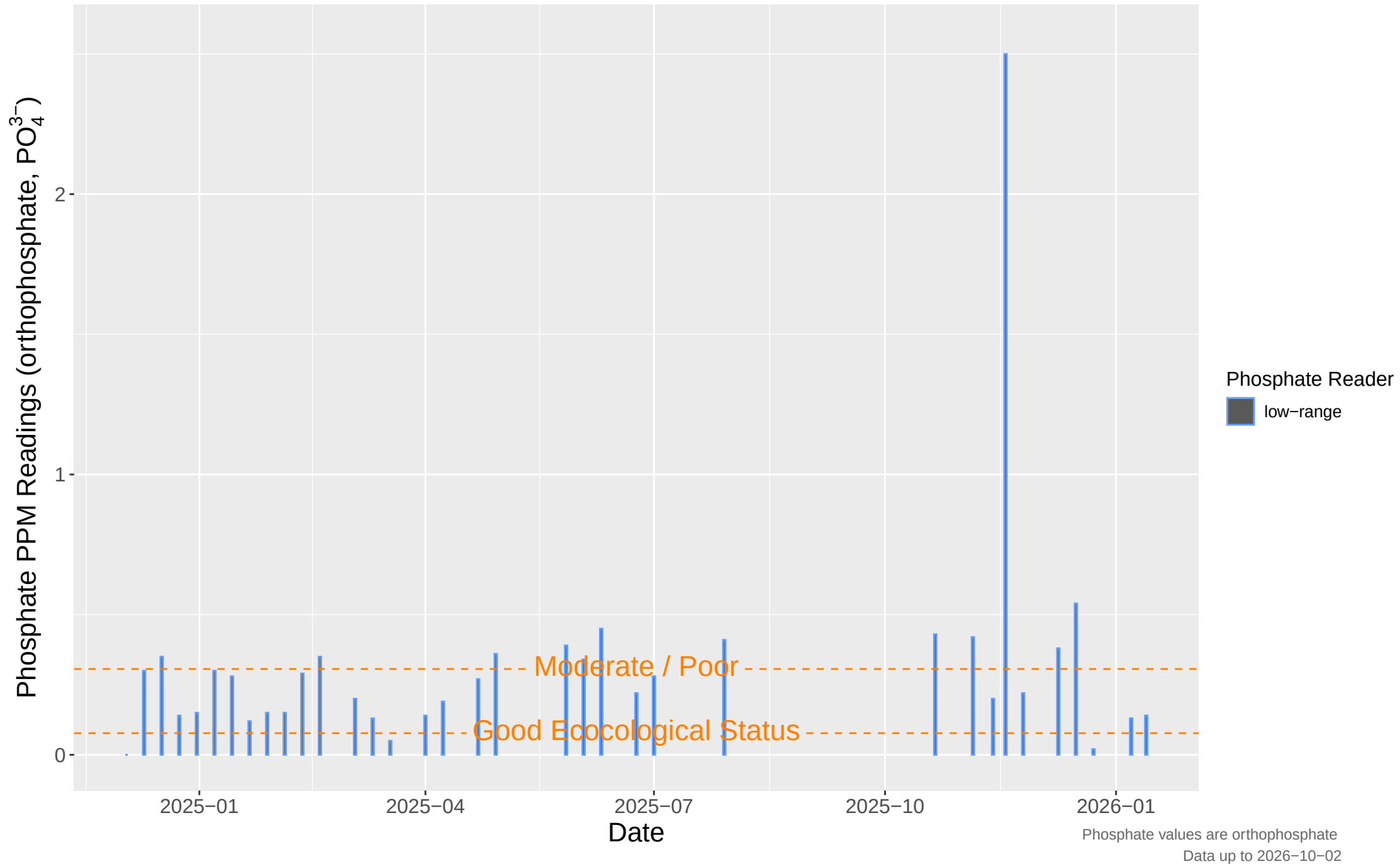
Site: Sutton Brook – Lower Brailes – New Barn Farm

Start Date: 2024-11-26 | Most Recent: 2026-01-13 | Total Samples: 48 | 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
Autumn 24	1		NA	NA	NA		5	5	5		534	534	534		9.8	9.8	9.8
Winter 24-25	12		0.00	0.22	0.35		2	5	10		362	581	625		5.8	9.1	11.5
Spring 25	10		0.05	0.20	0.39		5	5	10		586	603	620		9.1	13.1	18.0
Summer 25	8		0.22	0.34	0.45		2	5	10		605	617	640		16.1	20.8	26.7
Autumn 25	12		0.20	0.42	2.50		1	5	20		52	649	712		7.3	13.3	14.4
Winter 25-26	5		0.02	0.14	0.54		5	5	10		444	541	686		5.3	9.0	11.4

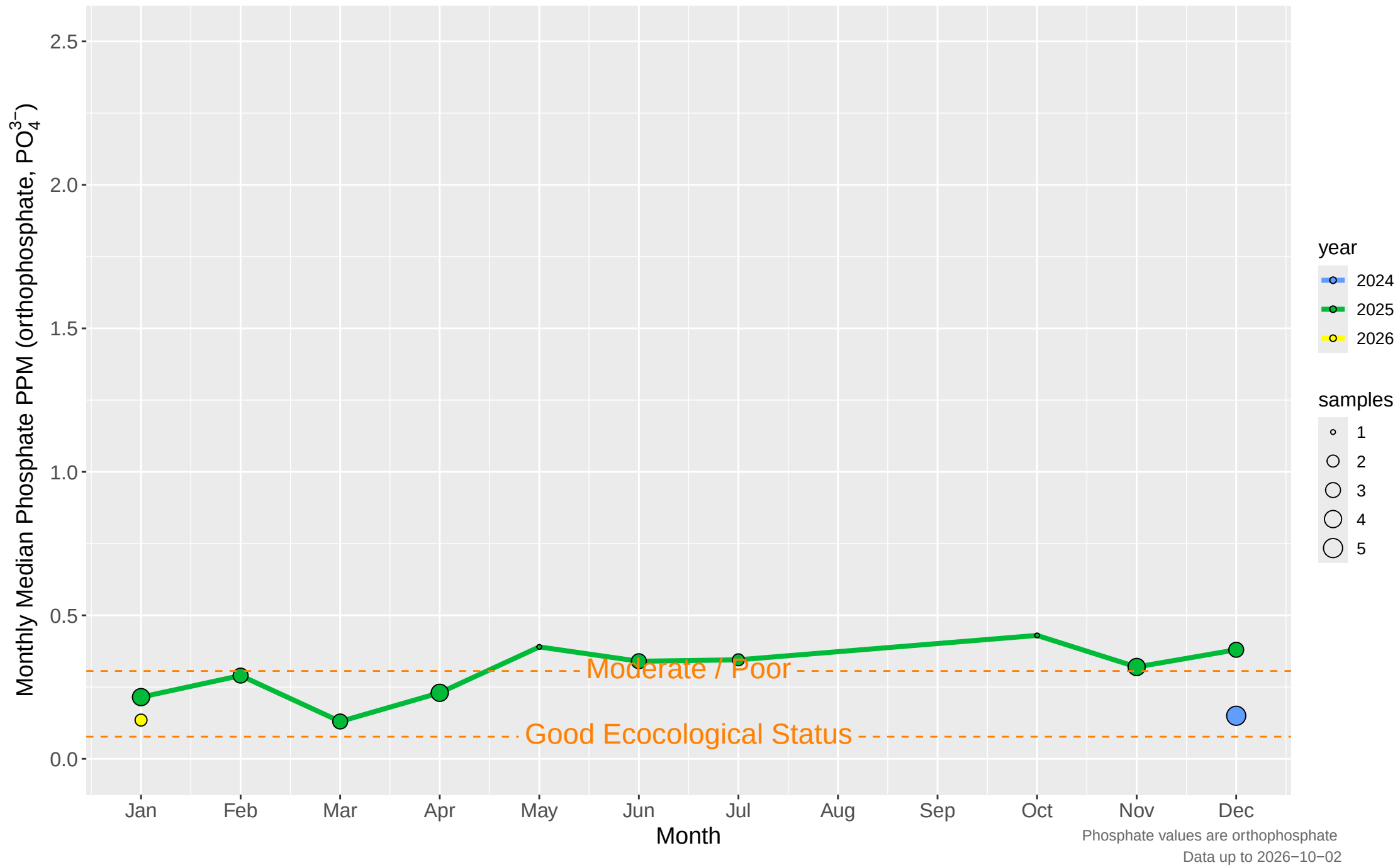
SafeAvon Phosphates – Individual Readings

Sutton Brook – Lower Brailes – New Barn Farm



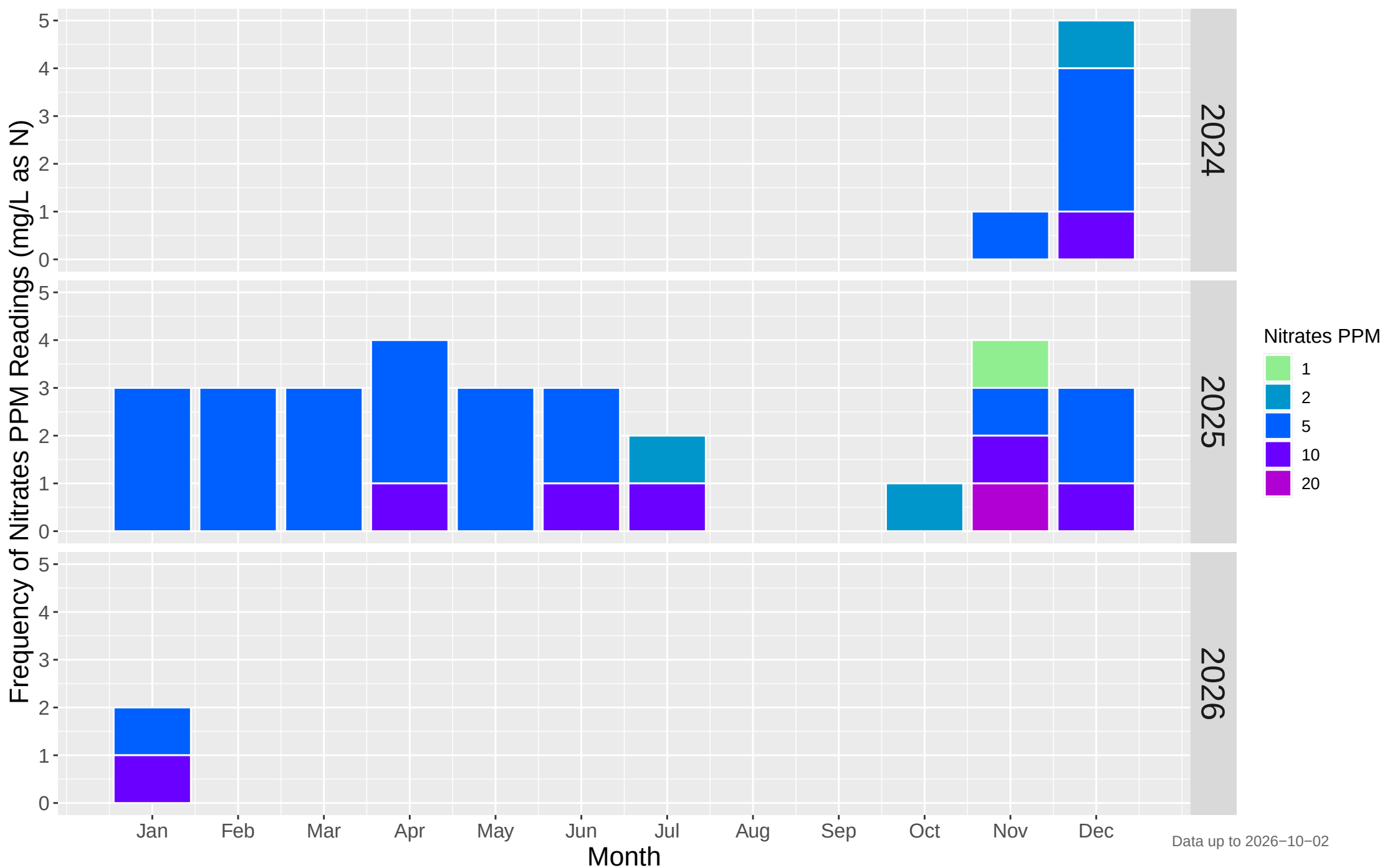
SafeAvon Phosphates – By Month

Sutton Brook – Lower Brailes – New Barn Farm



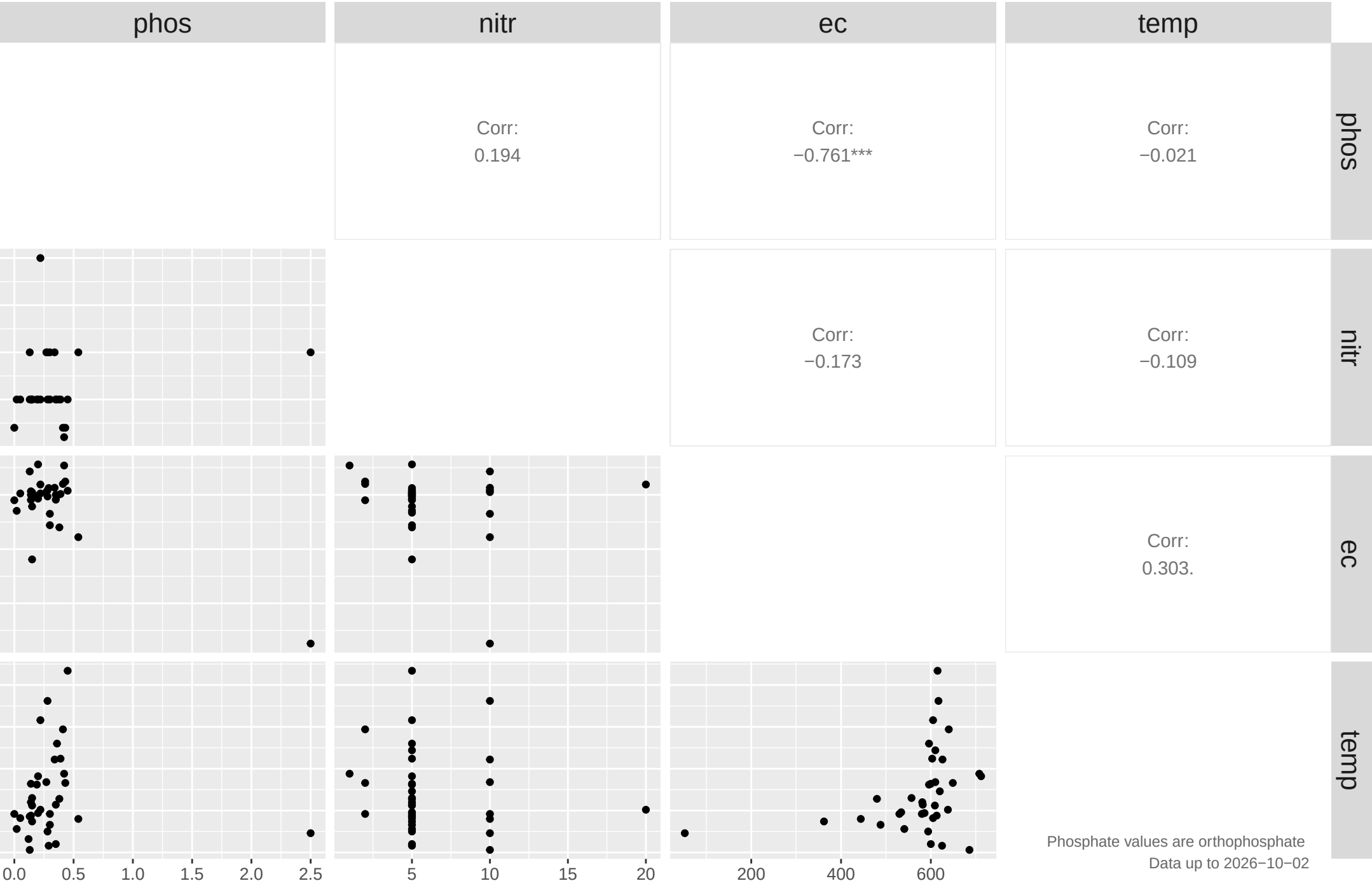
SafeAvon Nitrates By Month

Sutton Brook – Lower Brailes – New Barn Farm



Pairwise Testing Variables Relationships

Sutton Brook – Lower Brailes – New Barn Farm



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