

SafeAvon Nutrient Testing Report: Aston on Carrant

SafeAvon Sites By Waterway

Carrant Brook

. Aston on Carrant – Footbridge

SafeAvon Locations in Aston on Carrant

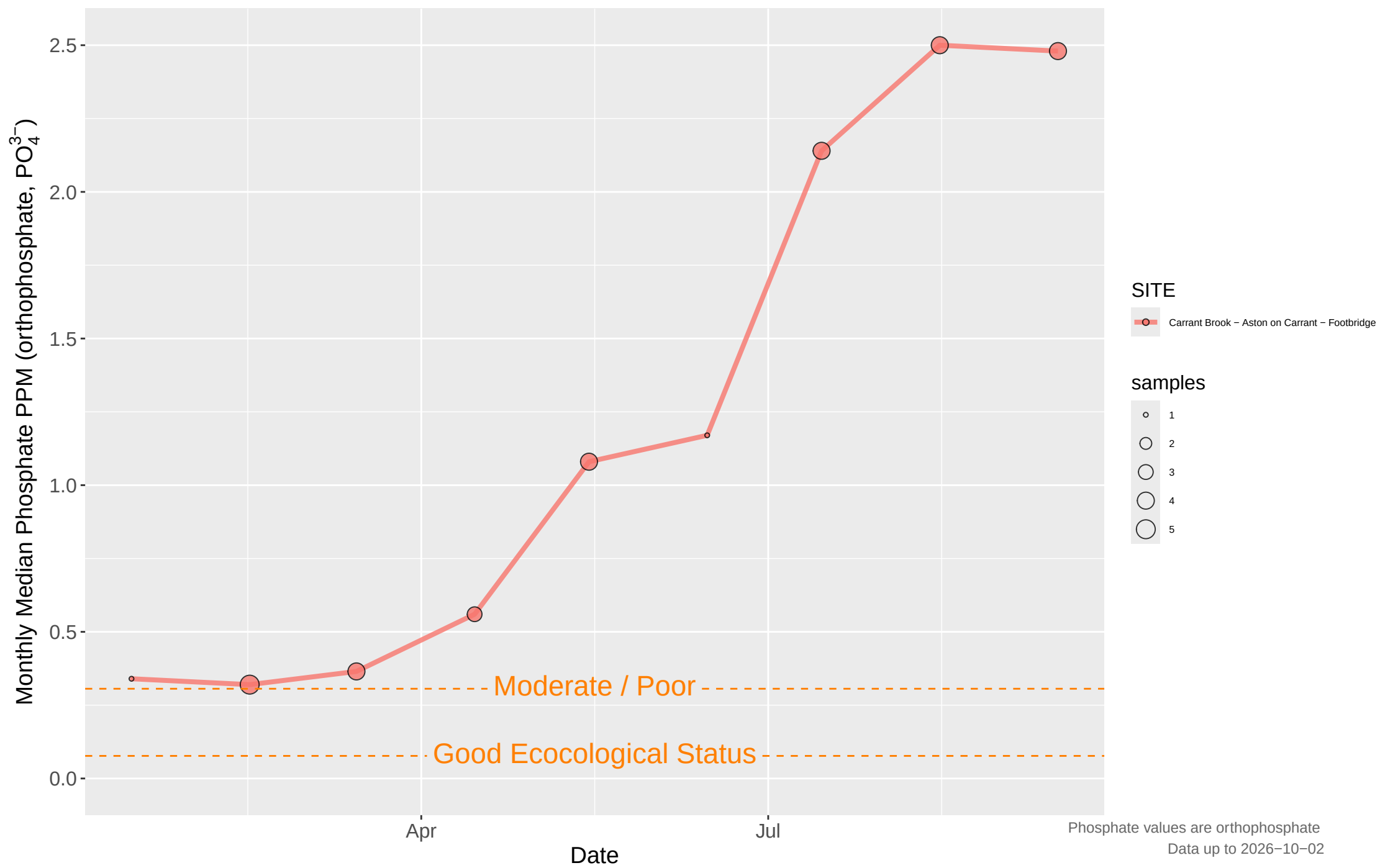


Summary for sites in Aston on Carrant

SITE	Start	Most Recent	Samples	Distinct Volunteers	Median Phosphates PPM	Median Nitrates PPM
Carrant Brook – Aston on Carrant – Footbridge	2026-01-30	2026-09-25	30	3	1.04	5

SafeAvon Phosphates – By Month

Aston on Carrant



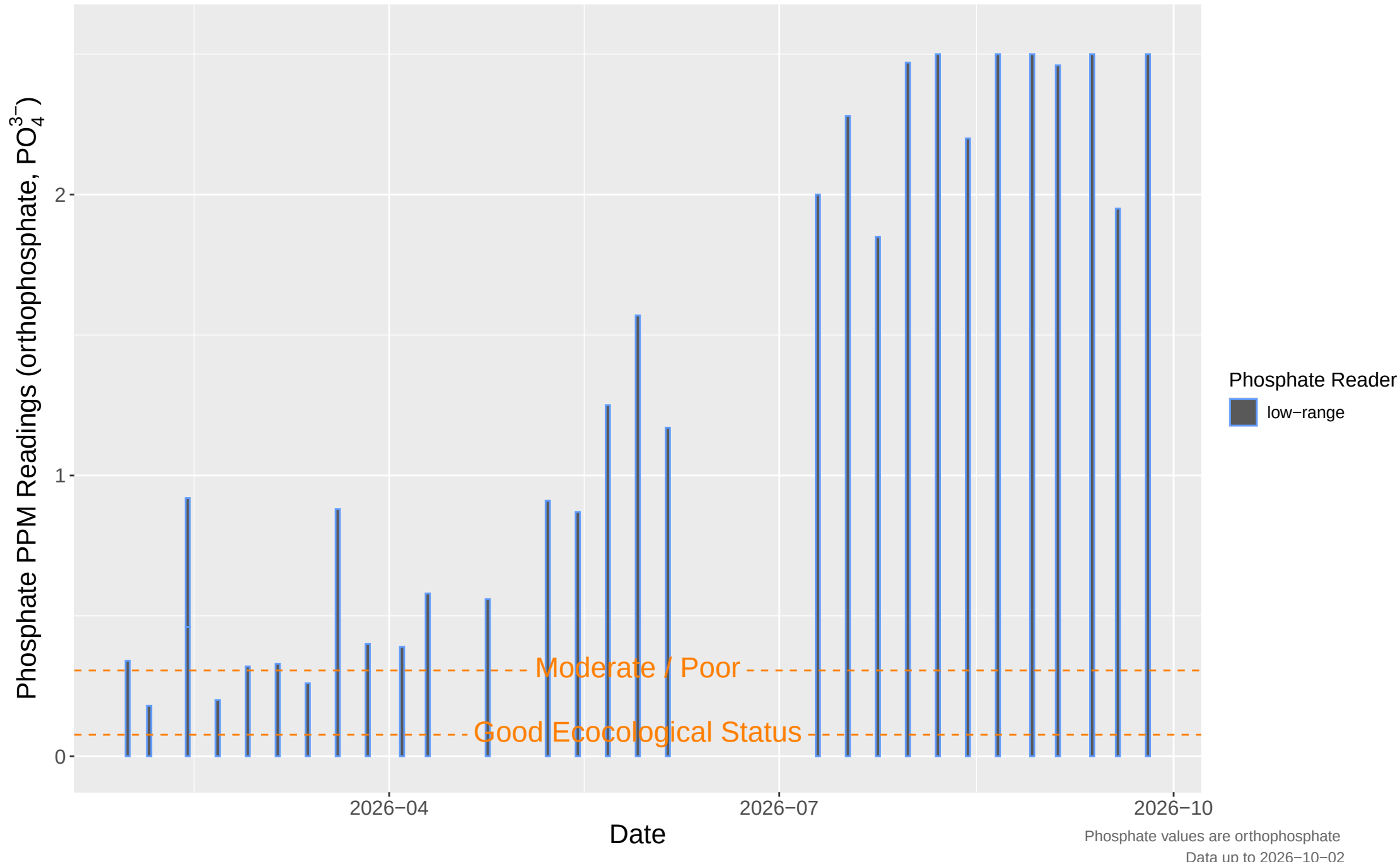
Site: Carrant Brook – Aston on Carrant – Footbridge

Start Date: 2026-01-30 | Most Recent: 2026-09-25 | Total Samples: 30 | 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
Winter 25-26	6		0.18	0.33	0.46		5	5	10		2	576	684		7.5	8.9	13.0
Spring 26	11		0.26	0.58	1.57		2	5	5		518	744	783		10.3	13.5	19.5
Summer 26	9		1.17	2.28	2.50		2	5	10		714	895	952		17.5	19.6	25.2
Autumn 26	4		1.95	2.48	2.50		5	5	10		848	900	976		16.7	17.4	18.3

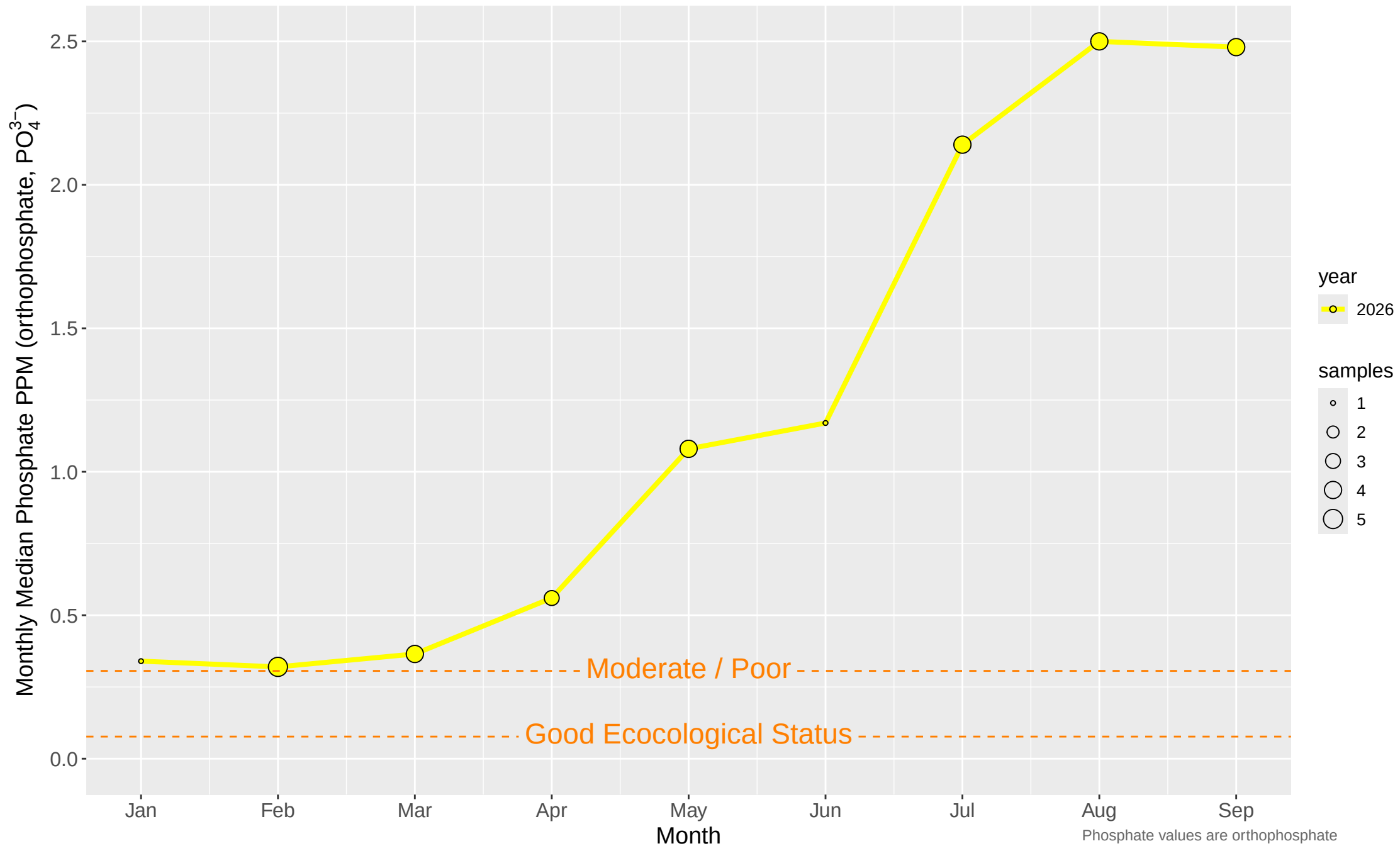
SafeAvon Phosphates – Individual Readings

Carrant Brook – Aston on Carrant – Footbridge



SafeAvon Phosphates – By Month

Carrant Brook – Aston on Carrant – Footbridge

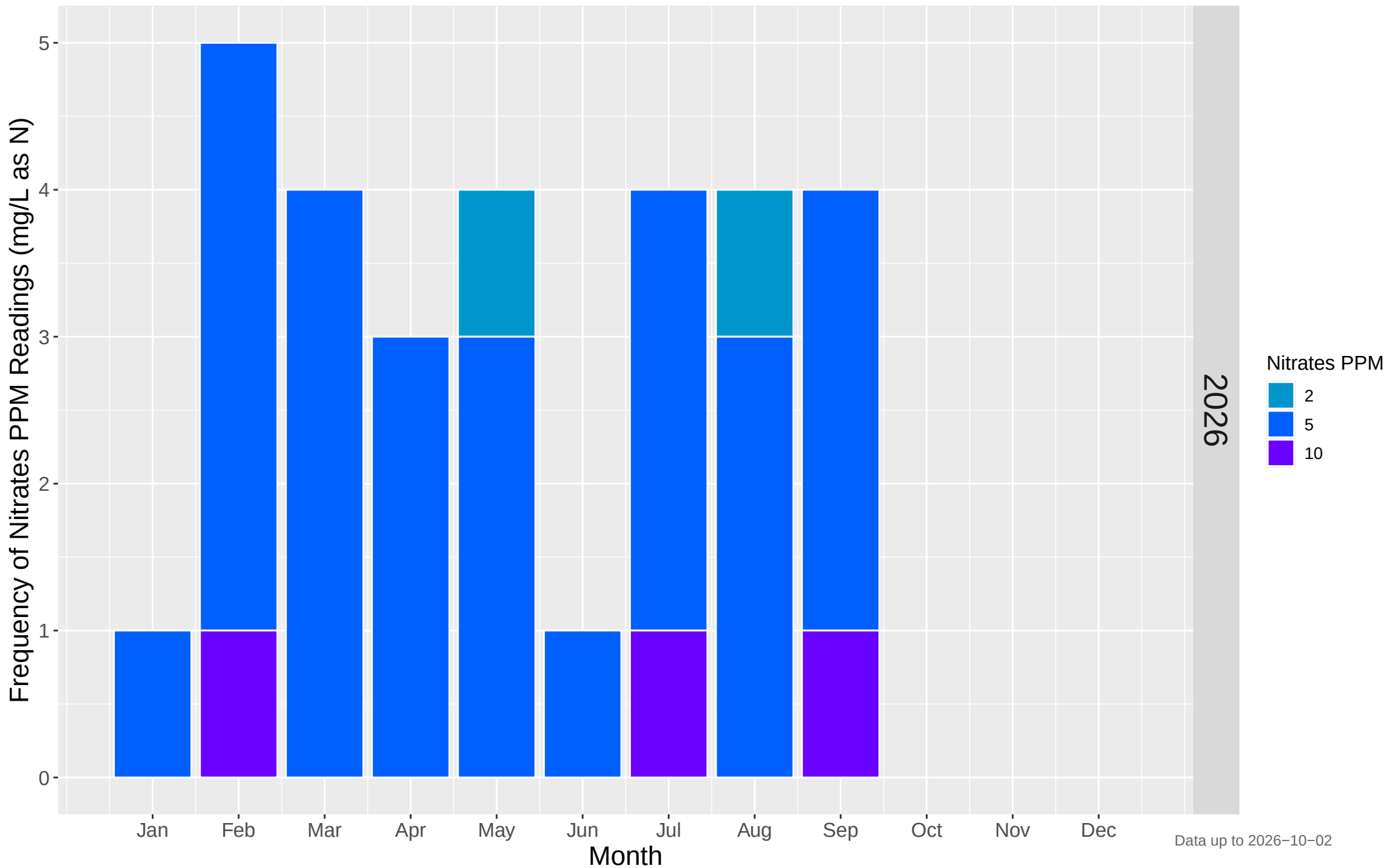


Phosphate values are orthophosphate

Data up to 2026-10-02

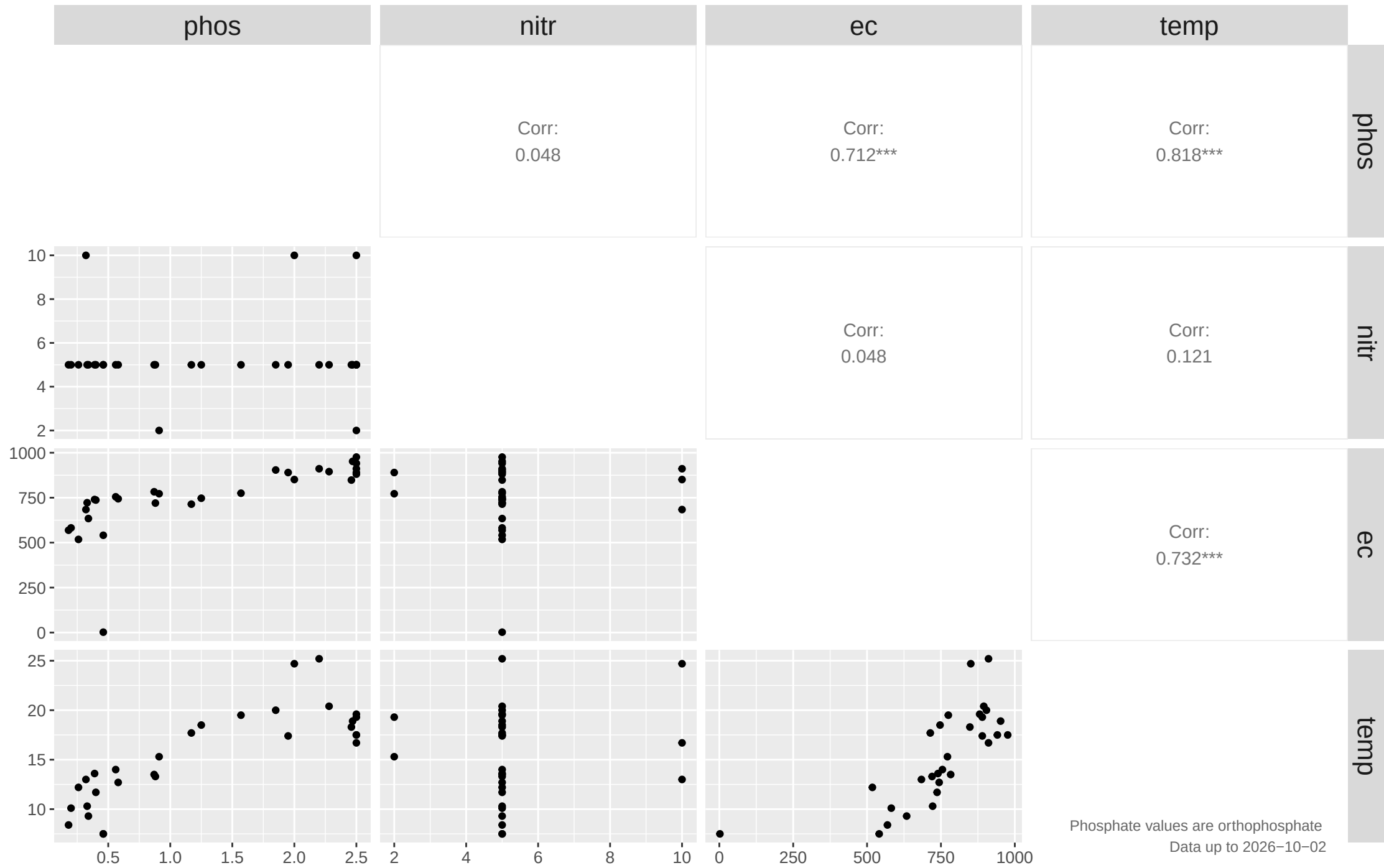
SafeAvon Nitrates By Month

Carrant Brook – Aston on Carrant – Footbridge



Pairwise Testing Variables Relationships

Carrant Brook – Aston on Carrant – Footbridge



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