

SafeAvon Nutrient Testing Report: Aston Magna

SafeAvon Sites By Waterway

Knee Brook

- . Aston Magna – Above Outlet
- . Aston Magna – Below Outlet

SafeAvon Locations in Aston Magna

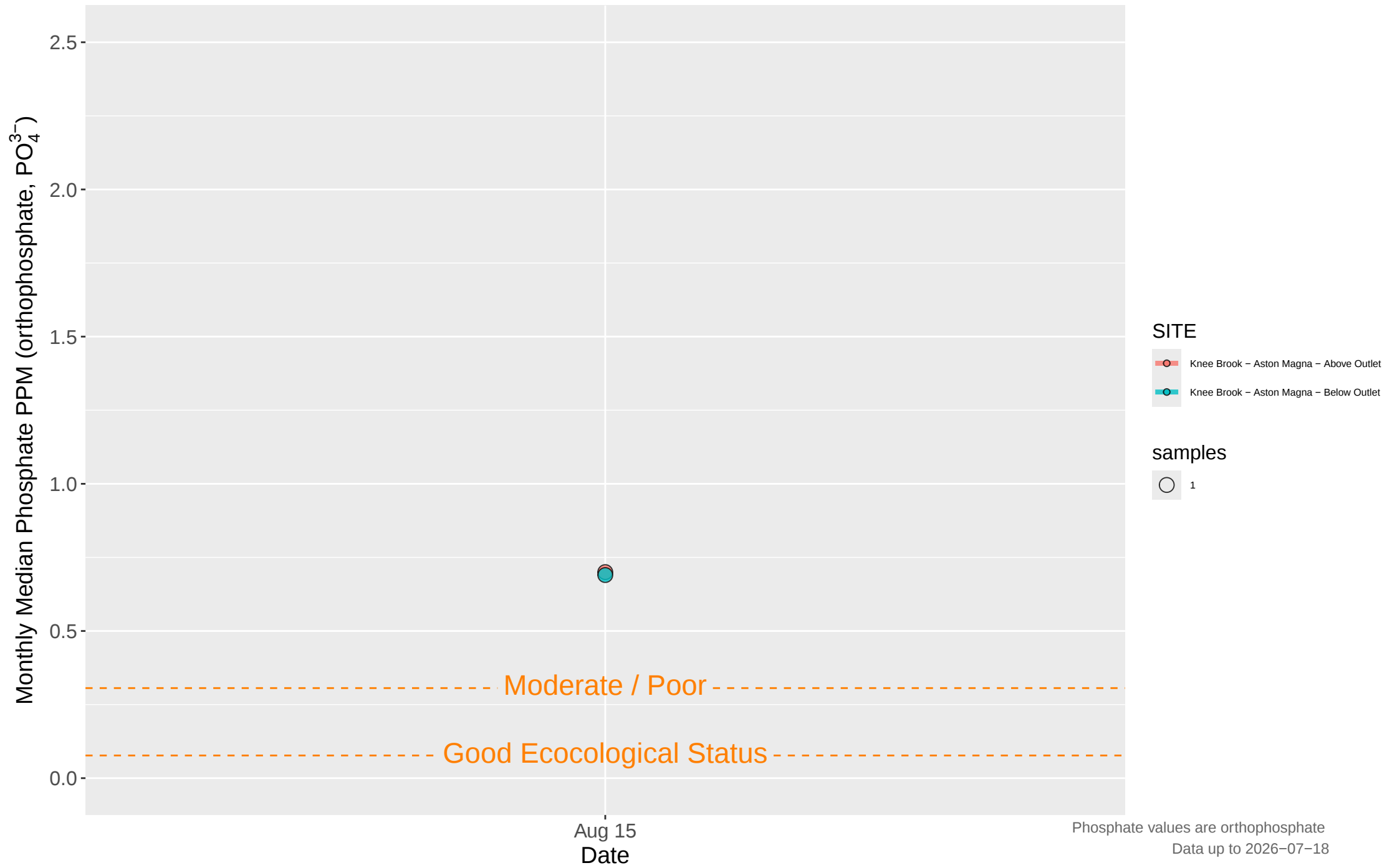


Summary for sites in Aston Magna

SITE	Start	Most Recent	Samples	Distinct Volunteers	Median Phosphates PPM	Median Nitrates PPM
Knee Brook – Aston Magna – Above Outlet	2025-08-20	2025-08-20	1	1	0.70	5
Knee Brook – Aston Magna – Below Outlet	2025-08-20	2025-08-20	1	1	0.69	5

SafeAvon Phosphates – By Month

Aston Magna



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–)

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