WATER SENSE

TE WAI TIKANGA

Tukituki Land Care

Mangaonuku Catchment

Summary report to September 2026

DISCLAIMER

Data - The following report is intended to provide a summary of the data received form Tukituki Land Care's, Mangaonuku catchment sampling programme and does not replace the official IANZ accredited reports in any way shape or form. In some cases, data points will be omitted to allow trending to be displayed more clearly. Please refer to the official lab reports as the primary source of information or for official reporting.

Test Information - Please note this is generalised information only about the tests and not to be used for any other purpose. Much of this information has been taken from the New Zealand Drinking Water Standards as New Zealand does not have Standards for streams, lakes, or rivers. Please treat all information with caution.

TEST INFORMATION

Escherichia Coli (E. coli) - Unlike other bacteria that comprise the total coliform group of organisms, *E. coli* is generally not found growing and reproducing in the environment. Consequently, *E. coli* is considered to be a species within the Coliform group that is the best indicator of recent faecal pollution and the potential for the presence of more dangerous disease-causing organisms (or pathogens).
HBRC planned target <260 E.coli/100ml

Nitrate and Nitrite Nitrogen (NO3 + NO2 - N) – The recommended limit in New Zealand is 11.4 mg/L for drinking water. If these limits are exceeded, excessive fertiliser use, human and/or animal waste contamination should be suspected.
*Five-year median for all sites in New Zealand is 0.027 mg/L**

Ammonia (NH4) Nitrate (NO3) and Nitrite (NO2) Nitrogen – The recommended limit in New Zealand is 11.4 mg/L for drinking water. If these limits are exceeded, excessive fertiliser use, human and/or animal waste contamination should be suspected. High Nitrogen levels in water sources can cause excess algae growth and can lower the dissolved oxygen content of the waterway creating a toxic environment for aquatic life.
*Five-year median for all sites in New Zealand is 0.29 mg/L**

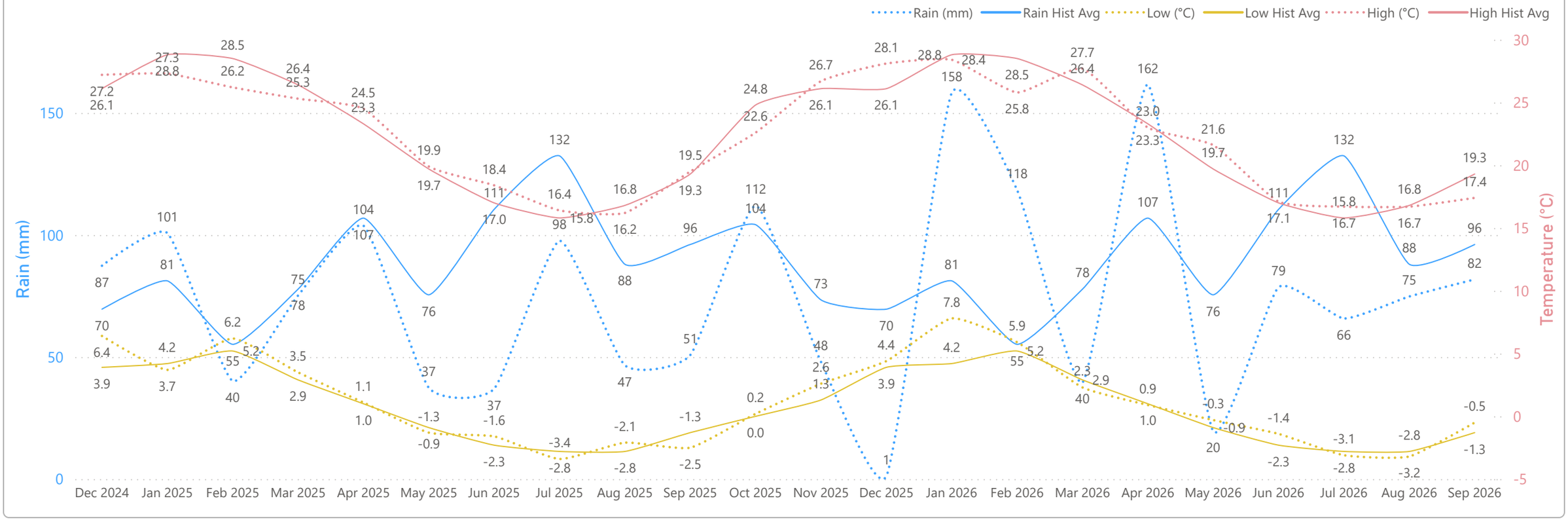
Dissolved Reactive Phosphorous – this is a proportion of Total Phosphorus that can readily and immediately support plant growth. High levels of dissolved reactive phosphorous can cause an increased risk of algal bloom.
HBRC planned target <0.010 mg/L
HBRC Rolling Medium for Mangaonuku Stream 0.018 mg/L

References - Drinking Water Standards for NZ (2005, Revised 2018). Guidelines for Drinking Water Quality (WHO; 4th Edition (2011) and www.lawa.org.nz*

Weather Data

Weather Trends

Monthly total mm rain and average high & low temperatures vs historical averages



Weather Data

	Dec 2024	Jan 2025	Feb 2025	Mar 2025	Apr 2025	May 2025	Jun 2025	Jul 2025	Aug 2025	Sep 2025	Oct 2025	Nov 2025	Dec 2025	Jan 2026	Feb 2026	Mar 2026	Apr 2026	May 2026	Jun 2026	Jul 2026	Aug 2026
High (°C)	27.20	27.30	26.20	25.30	24.50	19.90	18.40	16.40	16.20	19.50	22.60	26.70	28.10	28.40	25.80	27.70	23.00	21.60	17.10	16.70	16.70
High (°C) Hist Avg	26.10	28.80	28.50	26.40	23.30	19.70	17.00	15.80	16.80	19.30	24.80	26.10	26.10	28.80	28.50	26.40	23.30	19.70	17.00	15.80	16.80
Low (°C)	6.40	3.70	6.20	3.50	1.10	-1.30	-1.60	-3.40	-2.10	-2.50	0.20	2.60	4.40	7.80	5.90	2.30	0.90	-0.30	-1.40	-3.10	-3.20
Low (°C) Hist Avg	3.90	4.20	5.20	2.90	1.00	-0.90	-2.30	-2.80	-2.80	-1.30	0.00	1.30	3.90	4.20	5.20	2.90	1.00	-0.90	-2.30	-2.80	-2.80
Rain (mm)	87.40	100.80	40.20	75.20	103.80	37.40	37.00	97.60	46.60	50.80	112.00	48.00	1.20	158.20	118.40	39.60	161.60	19.60	78.60	65.80	74.80
Rain (mm) Hist Avg	69.60	81.20	55.20	77.80	106.90	75.50	110.50	132.40	88.00	96.10	104.20	73.40	69.60	81.20	55.20	77.80	106.90	75.50	110.50	132.40	88.00

Brow Road Wetland September 2026

Metric Name	Value Ave Post-Wetland	Value Latest
Ammonia as N		
Brow Road Wetland Inflow	0.029	< 0.005
Brow Road Wetland Outflow	0.007	< 0.005
Dissolved Reactive Phosphorus		
Brow Road Wetland Inflow	0.007	0.004
Brow Road Wetland Outflow	0.008	0.005
E. coli		
Brow Road Wetland Inflow	16.111	4.000
Brow Road Wetland Outflow	12.111	2.000
Nitrate-N		
Brow Road Wetland Inflow	1.834	2.950
Brow Road Wetland Outflow	2.285	3.870
Nitrite-N		
Brow Road Wetland Inflow	0.006	0.005
Brow Road Wetland Outflow	0.005	0.004
Total Oxidised Nitrogen (NO2N + NO3N)		
Brow Road Wetland Inflow	1.840	2.950
Brow Road Wetland Outflow	2.291	3.870

Site Name	Latest Sample DateTime
Brow Road Wetland Inflow	27/09/2026 2:00:00 p.m.
Brow Road Wetland Outflow	27/09/2026 1:50:00 p.m.

Brow Road Wetland Inflow September 2026

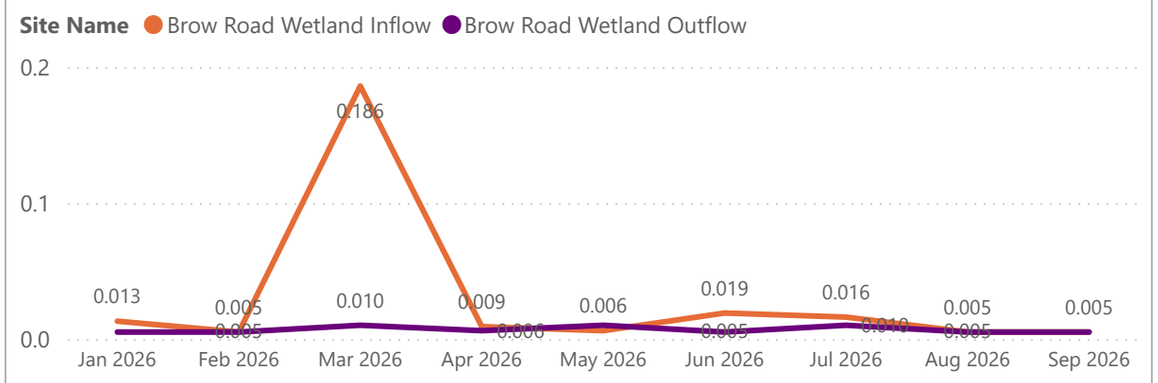


Brow Road Wetland Outflow September 2026

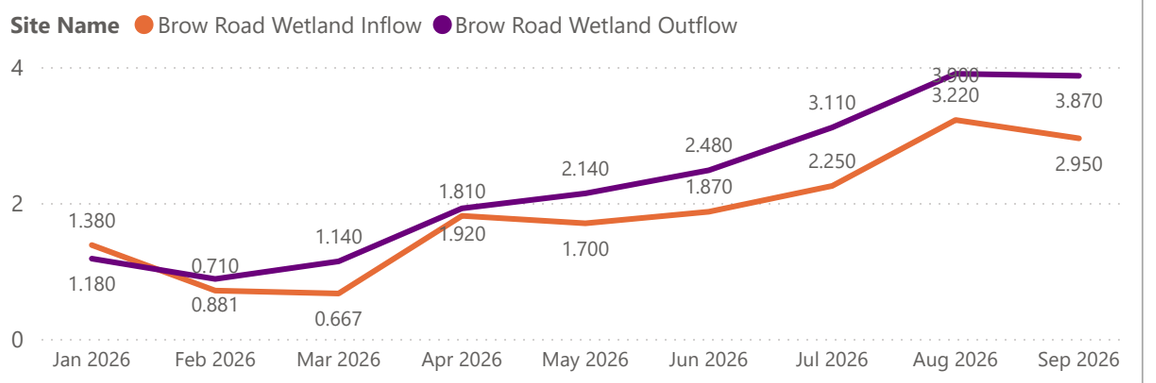


Brow Road Wetland Trends

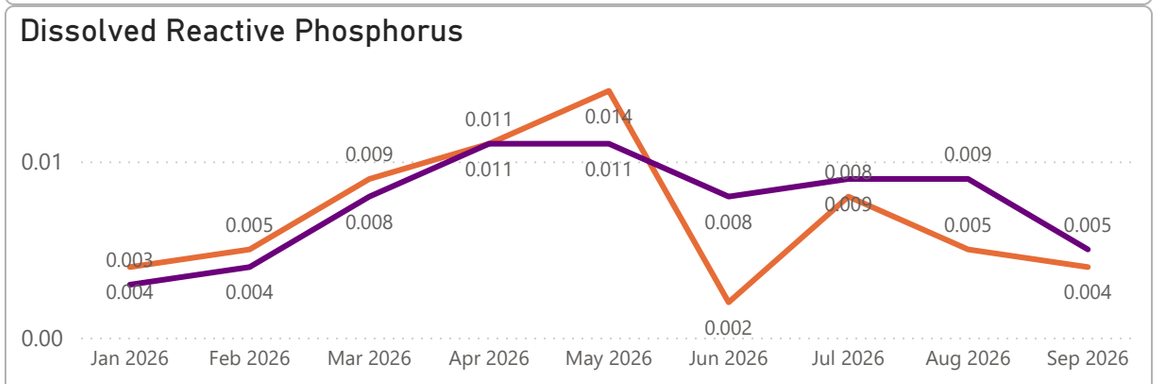
Ammonia as N



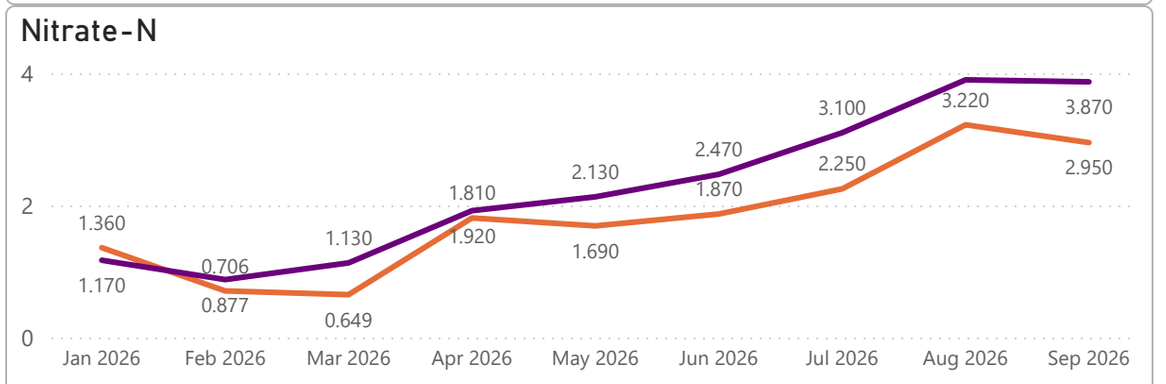
Total Oxidised Nitrogen (NO2N + NO3N)



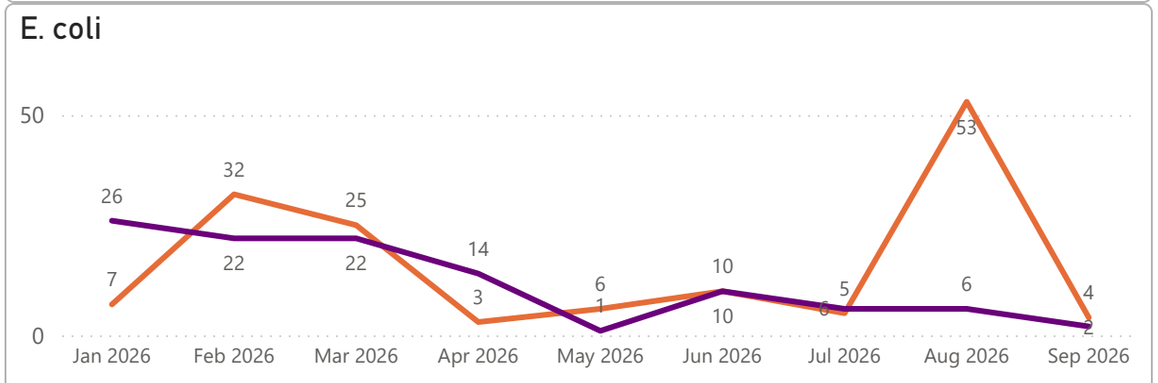
Dissolved Reactive Phosphorus



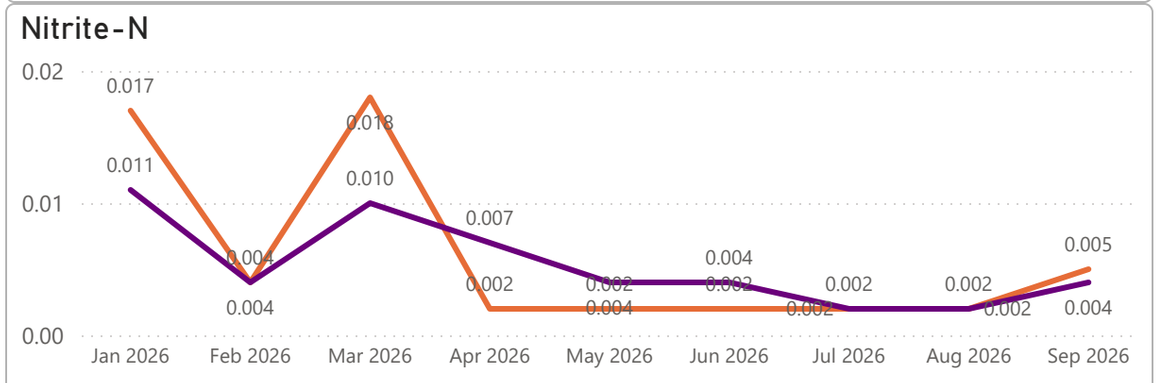
Nitrate-N



E. coli



Nitrite-N



Mangatahi Stream September 2026

Metric Name	Value Ave	Value Latest
Ammonia as N		
Mangatahi Stream Downstream	0.012	0.005
Mangatahi Stream Middle	0.017	0.007
Mangatahi Stream Upstream	0.007	0.020
Dissolved Reactive Phosphorus		
Mangatahi Stream Downstream	0.043	0.016
Mangatahi Stream Middle	0.042	0.019
Mangatahi Stream Upstream	0.045	0.028
E. coli		
Mangatahi Stream Downstream	263.333	12.000
Mangatahi Stream Middle	430.222	370.000
Mangatahi Stream Upstream	492.375	150.000
Nitrate-N		
Mangatahi Stream Downstream	1.036	0.841
Mangatahi Stream Middle	1.312	1.380
Mangatahi Stream Upstream	0.092	0.164
Nitrite-N		
Mangatahi Stream Downstream	0.005	0.004
Mangatahi Stream Middle	0.006	0.006
Mangatahi Stream Upstream	0.002	0.001
Total Oxidised Nitrogen (NO2N + NO3N)		
Mangatahi Stream Downstream	1.040	0.846
Mangatahi Stream Middle	1.320	1.380
Mangatahi Stream Upstream	0.094	0.166

Site Name	Latest Sample DateTime
Mangatahi Stream Downstream	27/09/2026 1:33:00 p.m.
Mangatahi Stream Middle	27/09/2026 12:56:00 p.m.
Mangatahi Stream Upstream	23/08/2026 2:22:00 p.m.

Mangatahi Stream Upstream September 2026

No flow - no sample taken

Mangatahi Stream Middle September 2026

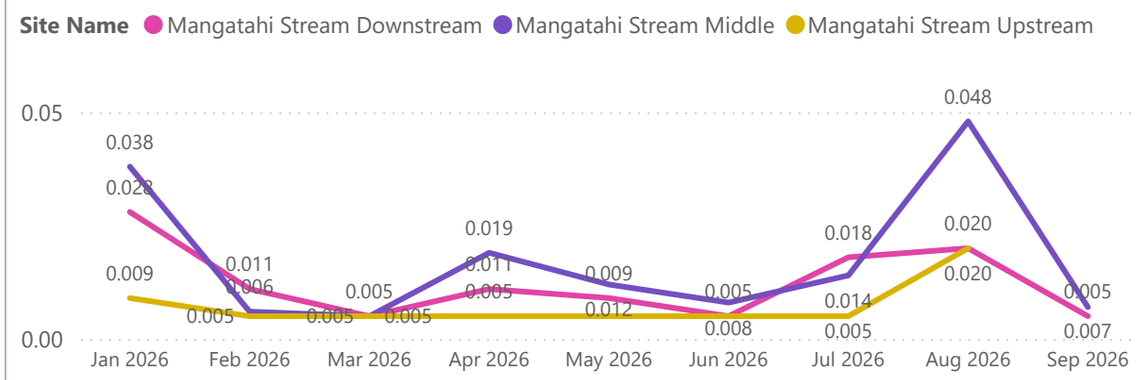


Mangatahi Stream Downstream September 2026

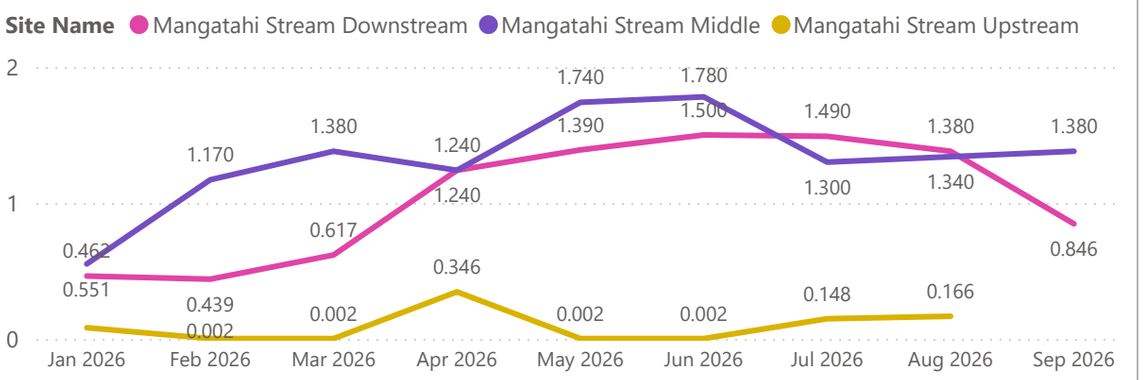


Mangatahi Stream Trends

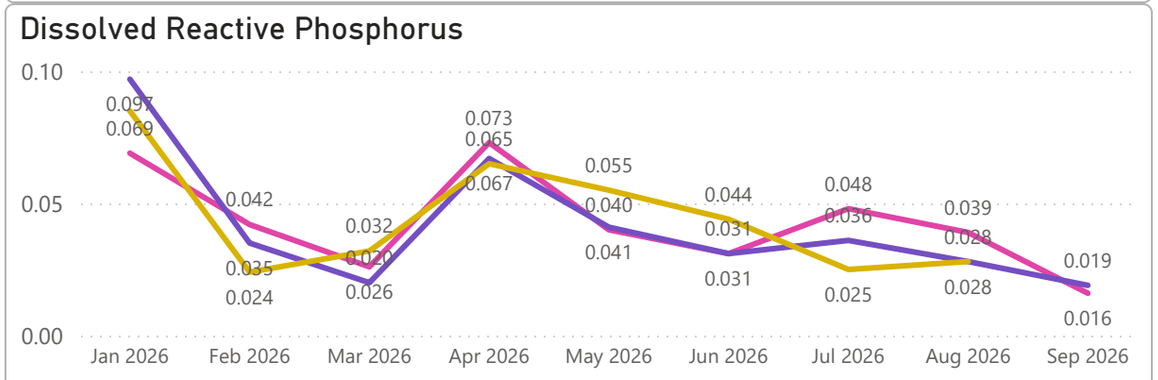
Ammonia as N



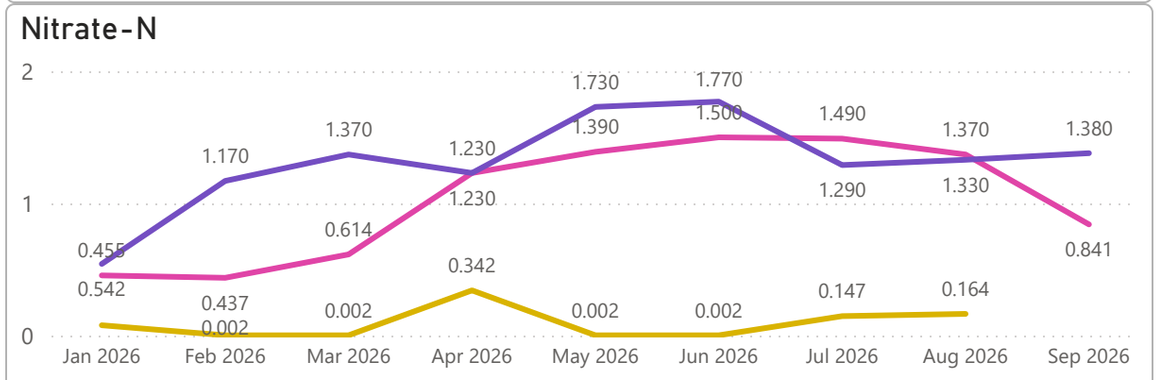
Total Oxidised Nitrogen (NO2N + NO3N)



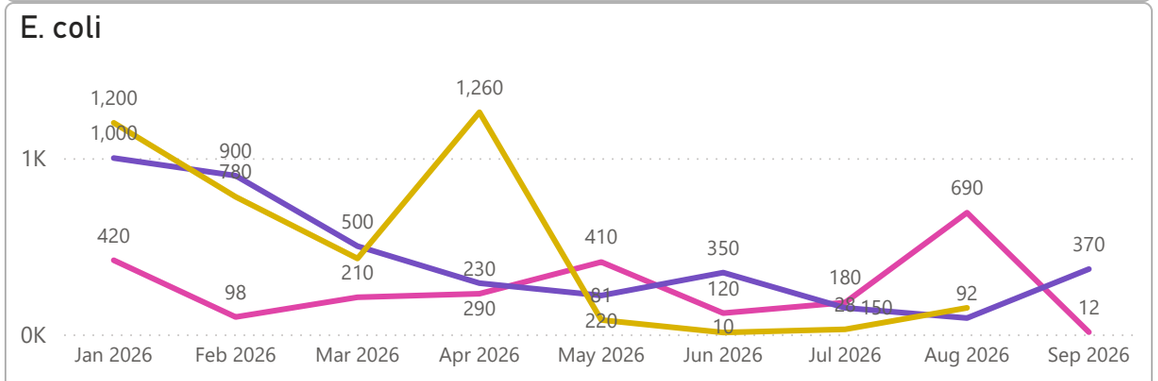
Dissolved Reactive Phosphorus



Nitrate-N



E. coli



Nitrite-N

