WATER SENSE

TE WAI TIKANGA

# Tukituki Land Care

# Summary report to June 2025

# DISCLAIMER

**Data -** The following report is intended to provide a summary of the data received for the Pōrangahau catchment group 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.

**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).
*Five-year median for all sites in New Zealand: 180 n/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.
*Five-year median for all sites in New Zealand is 0.00225 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*

# Tukipo White Wetland
# June 2025

| Metric Name | Value Ave Pre-Wetland excl Jan'21 | Value Ave Post-Wetland | Value Latest |
|---|---|---|---|
| **Ammonia as N** | | | |
| Tukipo Trib White Wetland Inflow | 0.022 | 0.014 | 0.020 |
| Tukipo Trib White Wetland Outflow | 0.014 | 0.013 | < 0.005 |
| **Dissolved Reactive Phosphorus** | | | |
| Tukipo Trib White Wetland Inflow | 0.006 | 0.013 | 0.008 |
| Tukipo Trib White Wetland Outflow | 0.008 | 0.003 | < 0.002 |
| **E. coli** | | | |
| Tukipo Trib White Wetland Inflow | 3,440.000 | 2,189.000 | 550.000 |
| Tukipo Trib White Wetland Outflow | 930.000 | 1,125.833 | 5.000 |
| **Nitrate-N** | | | |
| Tukipo Trib White Wetland Inflow | 3.053 | 0.444 | 0.343 |
| Tukipo Trib White Wetland Outflow | 2.727 | 0.248 | < 0.002 |
| **Nitrite-N** | | | |
| Tukipo Trib White Wetland Inflow | 0.017 | 0.002 | 0.002 |
| Tukipo Trib White Wetland Outflow | 0.007 | 0.021 | < 0.001 |
| **Total Oxidised Nitrogen (NO2N + NO3N)** | | | |
| Tukipo Trib White Wetland Inflow | 3.055 | 0.445 | 0.345 |
| Tukipo Trib White Wetland Outflow | 2.758 | 0.253 | < 0.002 |

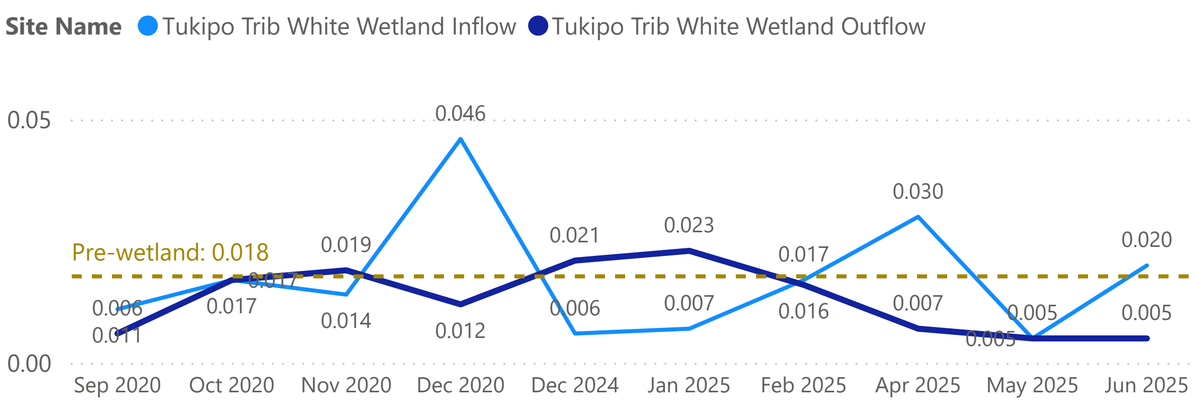
| Site Name | Latest Sample DateTime |
|---|---|
| Tukipo Trib White Wetland Inflow | 6/25/2025 9:25:00 AM |
| Tukipo Trib White Wetland Outflow | 6/25/2025 9:35:00 AM |

**Tukipo White Wetland Inflow 25/06/2025**

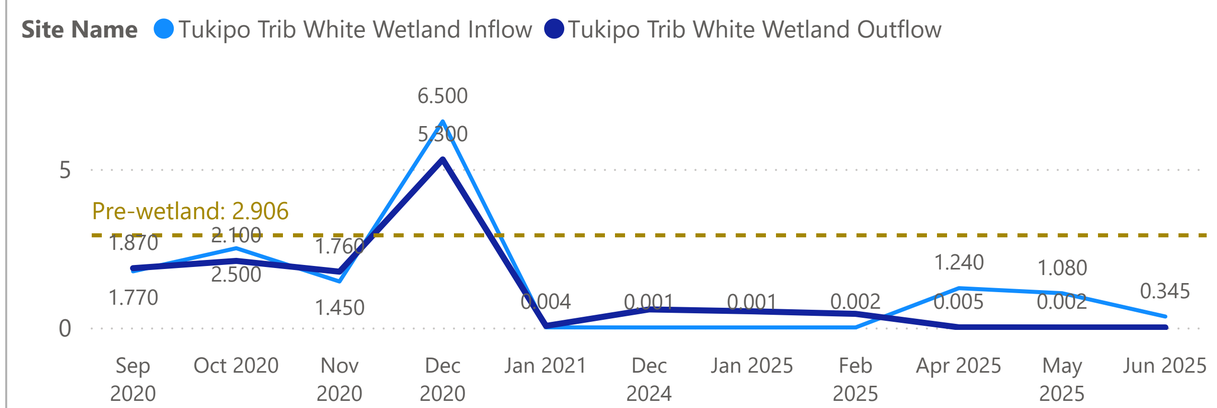
**Tukipo White Wetland Outflow 25/06/2025**

# Tukipo White Wetland pre & post Trends

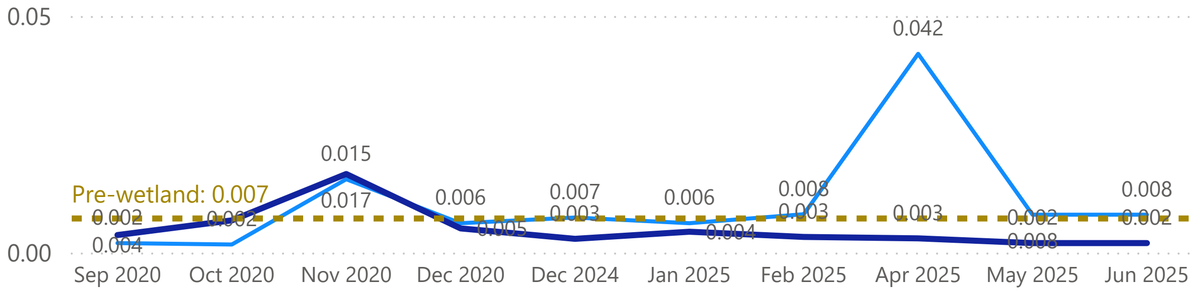
## Ammonia as N



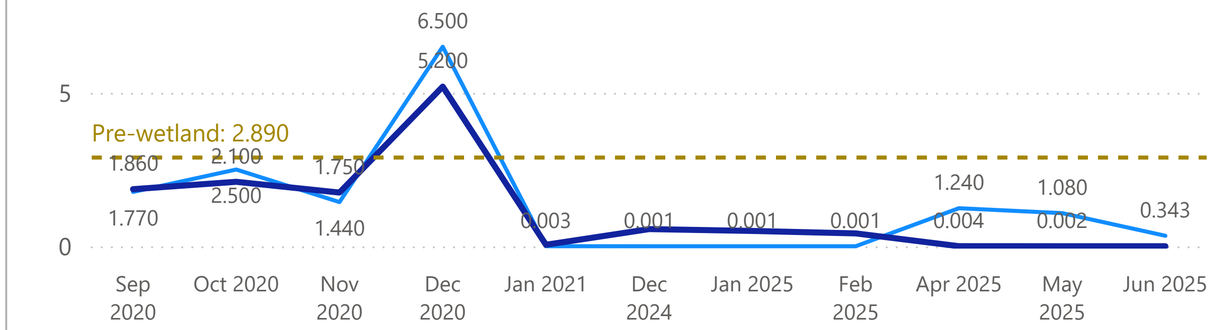

## Total Oxidised Nitrogen (NO2N + NO3N)



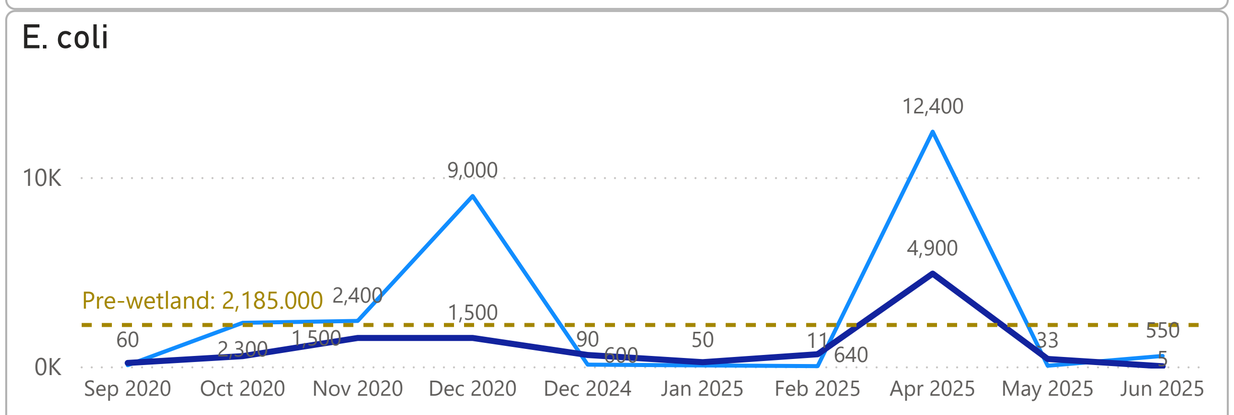

## Dissolved Reactive Phosphorus



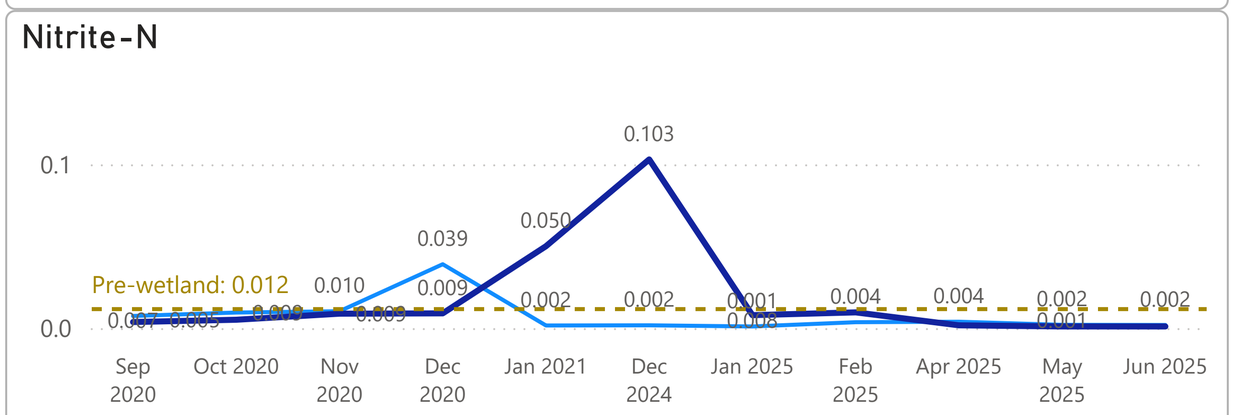

## Nitrate-N




## E. coli




## Nitrite-N



# Severinsen Road Wetland
# June 2025

| Metric Name | Value Ave Pre-Wetland excl Jan'21 | Value Ave Post-Wetland | Value Latest |
|---|---|---|---|
| **Ammonia as N** | | | |
| Severinsen Road Wetland Inflow | | 0.018 | 0.030 |
| Severinsen Road Wetland Outflow | | 0.038 | 0.070 |
| **Dissolved Reactive Phosphorus** | | | |
| Severinsen Road Wetland Inflow | | 0.006 | 0.008 |
| Severinsen Road Wetland Outflow | | 0.019 | 0.034 |
| **E. coli** | | | |
| Severinsen Road Wetland Inflow | | 2.000 | < 1.000 |
| Severinsen Road Wetland Outflow | | 14.000 | 5.000 |
| **Nitrate-N** | | | |
| Severinsen Road Wetland Inflow | | 0.002 | < 0.002 |
| Severinsen Road Wetland Outflow | | 0.004 | 0.006 |
| **Nitrite-N** | | | |
| Severinsen Road Wetland Inflow | | 0.001 | < 0.001 |
| Severinsen Road Wetland Outflow | | 0.001 | 0.002 |
| **Total Oxidised Nitrogen (NO2N + NO3N)** | | | |
| Severinsen Road Wetland Inflow | | 0.002 | < 0.002 |
| Severinsen Road Wetland Outflow | | 0.005 | 0.008 |

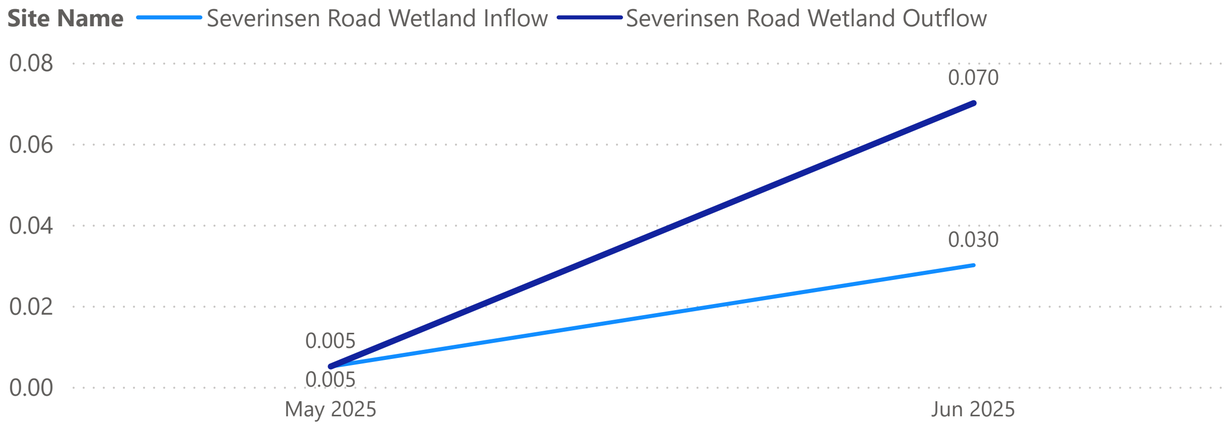
| Site Name | Latest Sample DateTime |
|---|---|
| Severinsen Road Wetland Inflow | 6/25/2025 9:00:00 AM |
| Severinsen Road Wetland Outflow | 6/25/2025 9:05:00 AM |

**Severinsen Road Wetland Inflow 25/06/2025**

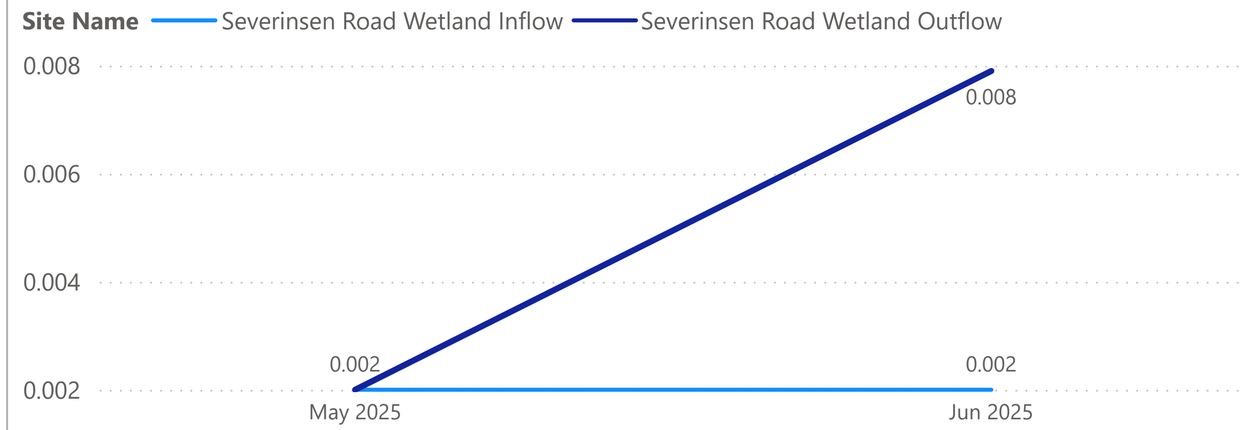
**Severinsen Road Wetland Outflow 25/06/2025**

# Serverinsen Latest Trends

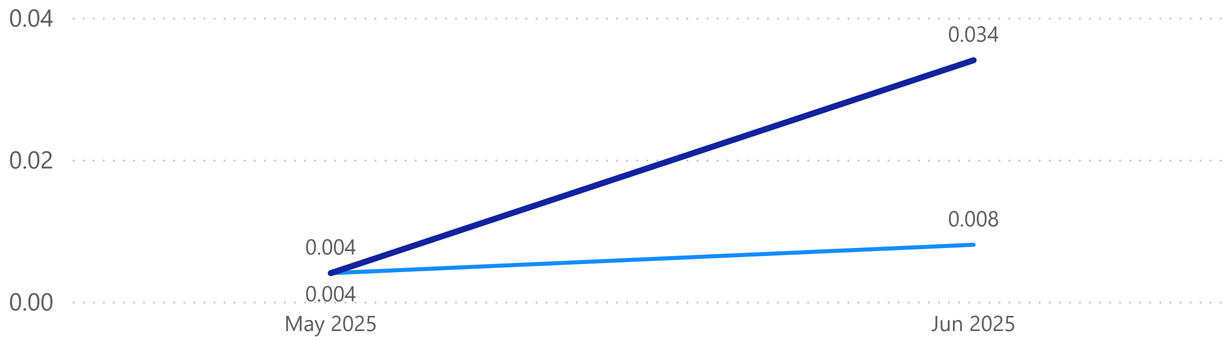
## Ammonia as N



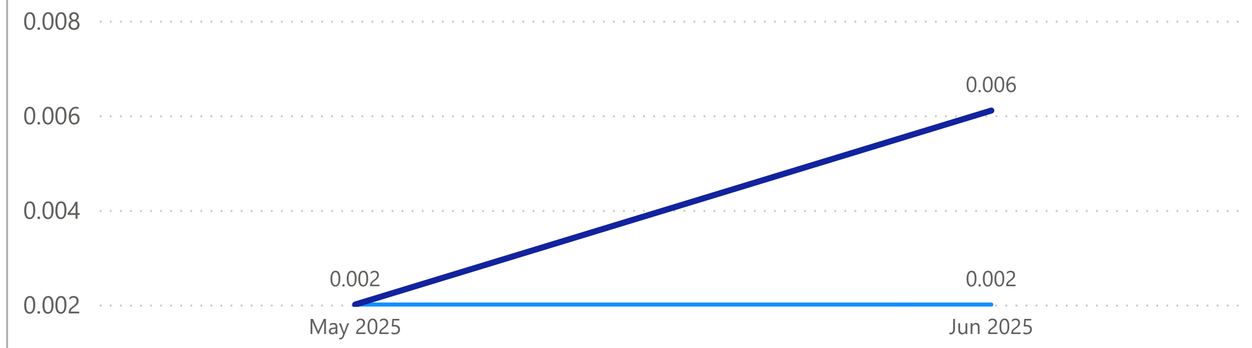

## Total Oxidised Nitrogen (NO2N + NO3N)



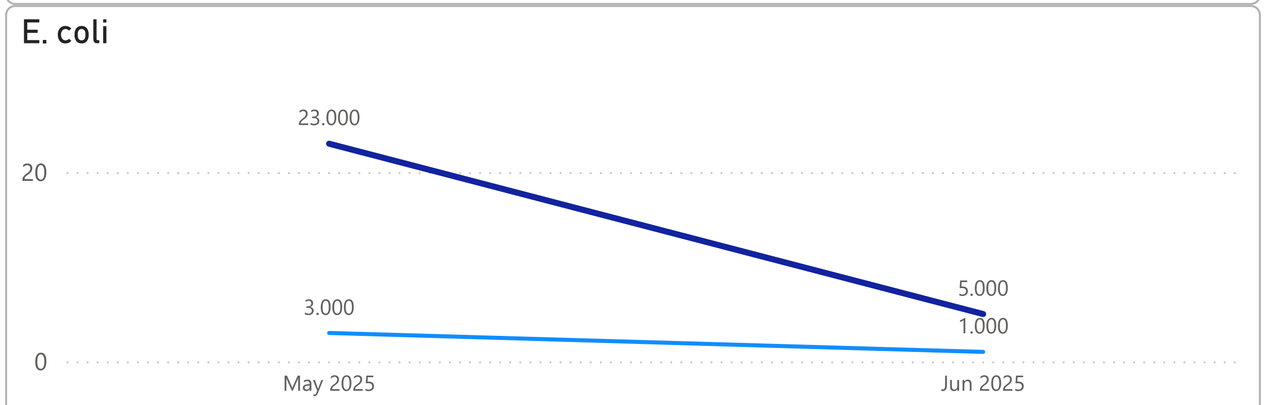

## Dissolved Reactive Phosphorus



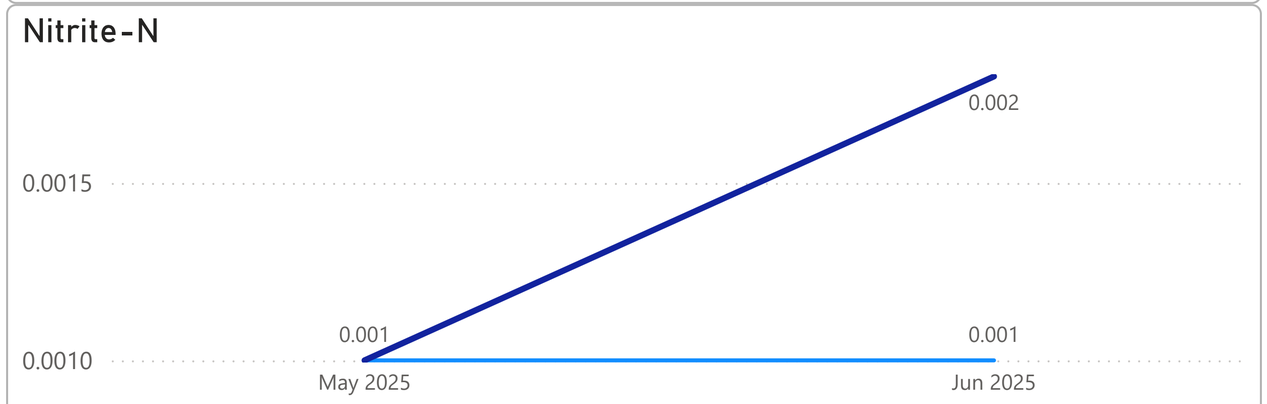

## Nitrate-N




## E. coli



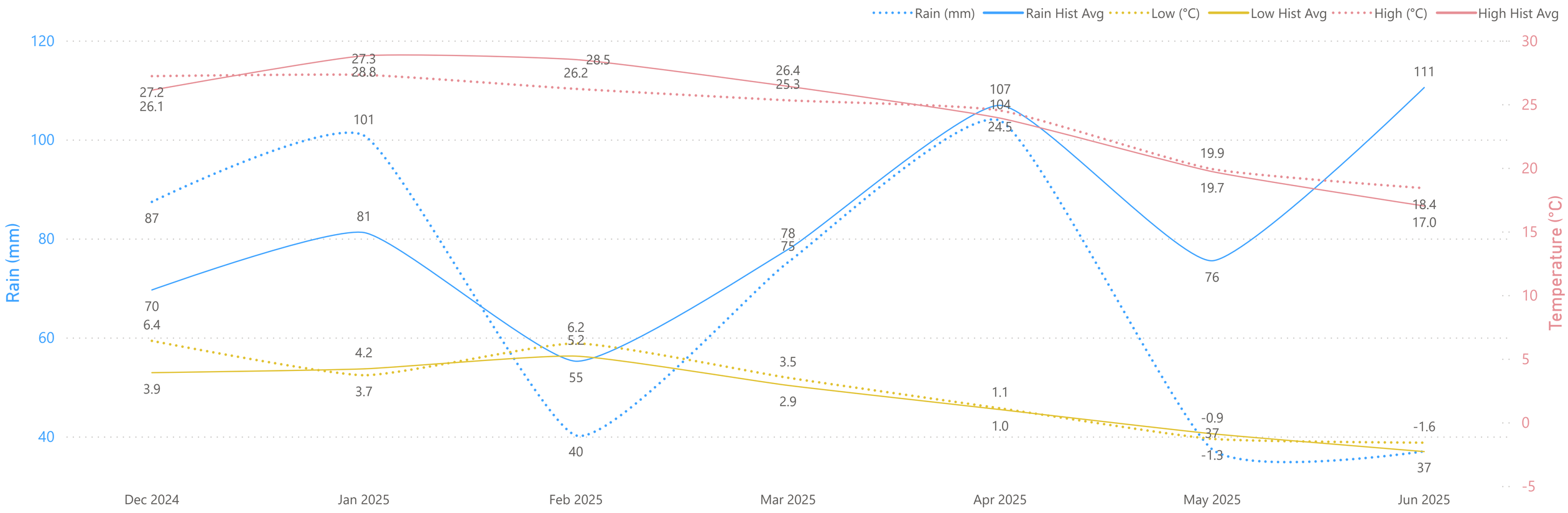

## Nitrite-N



# Appendix: 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 |
|---|---|---|---|---|---|---|---|
| High (°C) | 27.20 | 27.30 | 26.20 | 25.30 | 24.50 | 19.90 | 18.40 |
| High (°C) Hist Avg | 26.10 | 28.80 | 28.50 | 26.40 | 23.90 | 19.70 | 17.00 |
| Low (°C) | 6.40 | 3.70 | 6.20 | 3.50 | 1.10 | -1.30 | -1.60 |
| Low (°C) Hist Avg | 3.90 | 4.20 | 5.20 | 2.90 | 1.00 | -0.90 | -2.30 |
| Rain (mm) | 87.40 | 100.80 | 40.20 | 75.20 | 103.80 | 37.40 | 37.00 |
| Rain (mm) Hist Avg | 69.60 | 81.20 | 55.20 | 77.80 | 106.90 | 75.50 | 110.50 |