**Lanfax Laboratories**

Quality Assurance and Quality Control by Approved Methods

# Analysis of Water Sample

*Client*   Glen Innes Severn Council,
          Glen Innes Sewage Treatment Works          *Report 21th October 2024*
*Water Sample collected*   15th October 2024  Analysis complete 21th October 2024
*Sample collected by* Emily Leach          Samples received chilled 15th October 2024

## RESULTS  - GLEN INNES - 15th October 2024

mg L^{-1} = part per million)

| Parameter | | | EPA Limit 90th %ile | Units | Method |
|---|---|---|---|---|---|
| Ammonia $NH_3$-N | 0.83 | | 2.0 | mg L$^{-1}$ | APHA 4500-$NH_3$ C |
| Biochemical Oxygen Demand (5 days) | 6.8 | | 10 | mg L$^{-1}$ | APHA 5210 B |
| Elect. conductivity (EC) | 770 | | | uS cm$^{-1}$ | APHA 2510 B |
| Faecal Coliforms | 9 | | 200 | cfu/ 100 mL | Membrane Filter APHA 9222 D |
| $NO_2$ and $NO_3$ -N | 1.70 | | | mg L$^{-1}$ | APHA 4110 B |
| Oil & Grease | <2 | | 2 | mg L$^{-1}$ | USEPA 1664 |
| pH | 7.15 | | 6.8-8.5 | pH units | APHA 4500-H$^+$ B |
| Soluble Reactive P (SRP) | 0.15 | | | mg L$^{-1}$ | APHA 4110 B |
| Total phosphorus | 0.16 | | 0.3 | mg L$^{-1}$ | APHA 4500 P E |
| TKN - N | 4.6 | | | mg L$^{-1}$ | APHA 4500-N$_{org}$ C |
| TN | 6.3 | | 10 | mg L$^{-1}$ | TKN + $NO_2$+$NO_3$ |
| Total suspended solids TSS | 5 | | 15 | mg L$^{-1}$ | APHA 2540 D |
| | | | | | |

0<0.x =  measured but reading below detection level

**Reference**: APHA (2005) *Standard Meth230ods for the Examination of Water and Wastewater*.  21st Edition 2005.
**Comments**.  Please note the Lower detection limit under USEPA 1664 is 2  mg/L for Oil & Grease

| Glen Innes STP - elemental analysis | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| OCTOBER  2024 | Na | K | Mg | Ca | SAR | Hardness | Sulphur | TDS | Alkalinity | Chloride |
| Glen Innes | mg/L | mg/L | mg/L | mg/L | | mg/L | mg/L | mg/L | mg/L | mg/L |
| -15OCT24 | 75.3 | 18.3 | 25.8 | 34.9 | 2.4 | 193 | 68.2 | 516 | 80 | 65 |