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Quality Assurance and Quality Control by Approved Methods

# Analysis of Water Sample

*Client* Glen Innes Severn Council,
Glen Innes Sewage Treatment Works *Report 10th February 2025*
*Water Sample collected* 4th February 2025 Analysis complete 10th February 2025
*Sample collected by* Emily Leach Samples received chilled 4th February 2025

## RESULTS - GLEN INNES - 4th February 2025

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

| *Parameter* | | | EPA Limit 90th %ile | *Units* | *Method* |
|---|---|---|---|---|---|
| Ammonia $NH_3$-N | 0.64 | | 2.0 | mg $L^{-1}$ | APHA 4500-$NH_3$ C |
| Biochemical Oxygen Demand (5 days) | 5.8 | | 10 | mg $L^{-1}$ | APHA 5210 B |
| Elect. conductivity (EC) | 614 | | | uS $cm^{-1}$ | APHA 2510 B |
| Faecal Coliforms | 32 | | 200 | cfu/ 100 mL | Membrane Filter APHA 9222 D |
| $NO_2$ and $NO_3$ -N | 2.70 | | | mg $L^{-1}$ | APHA 4110 B |
| Oil & Grease | <2 | | 2 | mg $L^{-1}$ | USEPA 1664 |
| pH | 7.3 | | 6.8-8.5 | pH units | APHA 4500-$H^+$ B |
| Soluble Reactive P (SRP) | 0.01 | | | mg $L^{-1}$ | APHA 4110 B |
| Total phosphorus | 0.21 | | 0.3 | mg $L^{-1}$ | APHA 4500 P E |
| TKN - N | 2.8 | | | mg $L^{-1}$ | APHA 4500-$N_{org}$ C |
| TN | 5.5 | | 10 | mg $L^{-1}$ | TKN + $NO_2$+$NO_3$ |
| Total suspended solids TSS | 8 | | 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 Weir - elemental analysis**

| FEBRUARY 2025 | 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 |
| 04FEB25 | 63.2 | 13.2 | 21.2 | 28.4 | 2.2 | 158 | 55.7 | 411 | 70 | 48 |