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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 20th May 2024*
*Water Sample collected* 14th May 2024 Analysis complete 20th May 2024
*Sample collected by* Emily Leach Samples received chilled 16th April 2024

## RESULTS - GLEN INNES - 14th May 2024

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

| *Parameter* | | | EPA Limit 90th %ile | *Units* | *Method* |
|---|---|---|---|---|---|
| Ammonia $NH_3$-N | 1.0 | | 2.0 | mg $L^{-1}$ | APHA 4500-$NH_3$ C |
| Biochemical Oxygen Demand (5 days) | 3.2 | | 10 | mg $L^{-1}$ | APHA 5210 B |
| Elect. conductivity (EC) | 672 | | | uS $cm^{-1}$ | APHA 2510 B |
| Faecal Coliforms | 2 | | 200 | cfu/ 100 mL | Membrane Filter APHA 9222 D |
| $NO_2$ and $NO_3$ -N | 3.16 | | | mg $L^{-1}$ | APHA 4110 B |
| Oil & Grease | <2 | | 2 | mg $L^{-1}$ | USEPA 1664 |
| pH | 7.42 | | 6.8-8.5 | pH units | APHA 4500-$H^+$ B |
| Soluble Reactive P (SRP) | 0.01 | | | mg $L^{-1}$ | APHA 4110 B |
| Total phosphorus | 0.06 | | 0.3 | mg $L^{-1}$ | APHA 4500 P E |
| TKN - N | 3.8 | | | mg $L^{-1}$ | APHA 4500-$N_{org}$ C |
| TN | 7 | | 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 Weir - elemental analysis**

| MAY 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 |
| 14MAY24 | 63.2 | 14.3 | 25.3 | 27.7 | 2.1 | 173 | 51.3 | 450 | 101 | 54 |