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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 23<sup>rd</sup> April 2024

Water Sample collected 16<sup>th</sup> April 2024 Analysis complete 23<sup>rd</sup> April 2024

Sample collected by Emily Leach

Samples received chilled 16<sup>th</sup> April 2024

## RESULTS - GLEN INNES - 16<sup>th</sup> April 2024

mg L<sup>-1</sup> = part per million)

| Parameter                              |      |  | EPA Limit<br>90 <sup>th</sup> %ile | Units               | Method                                 |
|--|------|--|------------------------------------|---------------------|--|
| Ammonia NH <sub>3</sub> -N             | 0.76 |  | 2.0                                | mg L <sup>-1</sup>  | APHA 4500-NH <sub>3</sub> C            |
| Biochemical Oxygen Demand (5 days)     | 3.1  |  | 10                                 | mg L <sup>-1</sup>  | APHA 5210 B                            |
| Elect. conductivity (EC)               | 800  |  |                                    | uS cm <sup>-1</sup> | APHA 2510 B                            |
| Faecal Coliforms                       | 9    |  | 200                                | cfu/<br>100 mL      | Membrane Filter<br>APHA 9222 D         |
| NO <sub>2</sub> and NO <sub>3</sub> -N | 2.63 |  |                                    | mg L <sup>-1</sup>  | APHA 4110 B                            |
| Oil & Grease                           | <2   |  | 2                                  | mg L <sup>-1</sup>  | USEPA 1664                             |
| pH                                     | 7.38 |  | 6.8-8.5                            | pH units            | APHA 4500-H <sup>+</sup> B             |
| Soluble Reactive P (SRP)               | 0.02 |  |                                    | mg L <sup>-1</sup>  | APHA 4110 B                            |
| Total phosphorus                       | 0.09 |  | 0.3                                | mg L <sup>-1</sup>  | APHA 4500 P E                          |
| TKN - N                                | 1.6  |  |                                    | mg L <sup>-1</sup>  | APHA 4500-N <sub>org</sub> C           |
| TN                                     | 4.2  |  | 10                                 | mg L <sup>-1</sup>  | TKN + NO <sub>2</sub> +NO <sub>3</sub> |
| Total suspended solids TSS             | 8    |  | 15                                 | mg L <sup>-1</sup>  | APHA 2540 D                            |
|  |      |  |                                    |                     |  |

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

**Reference:** APHA (2005) *Standard Methods 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 |      |      |      |      |     |          |         |      |            |          |
|-------------------------------------|------|------|------|------|-----|----------|---------|------|------------|----------|
| APRIL 2024                          | Na   | K    | Mg   | Ca   | SAR | Hardness | Sulphur | TDS  | Alkalinity | Chloride |
| Innes-16APR24                       | mg/L | mg/L | mg/L | mg/L |     | mg/L     | mg/L    | mg/L | mg/L       | mg/L     |
|                                     | 77.1 | 17.9 | 28.6 | 30.2 | 2.4 | 193      | 28.9    | 536  | 107        | 153      |



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