

Analysis of Water Sample

Client Glen Innes Severn Council,

Glen Innes Sewage Treatment Works *Report 21st November 2022*

Water Sample collected 15th November 2022 Analysis complete 21st November 2022

Sample collected by Pramod Lamsal Samples received chilled 15th November 2022

RESULTS - Glen Innes 15th November 2022

mg L⁻¹ = part per million)

| Parameter | | | Licence Limit (90th%ile) | Units | Method |
|--|-----------------|--------------------|--------------------------|---------------------|--|
| Ammonia NH ₃ -N | 1.23 | | 2 | mg L ⁻¹ | APHA 4500-NH ₃ C |
| Biochemical Oxygen Demand (5 days) | 8.8 | | 10 | mg L ⁻¹ | APHA 5210 B |
| Elect. conductivity (EC) | 556 | | | uS cm ⁻¹ | APHA 2510 B |
| Faecal Coliforms | <1 | | 200 | cfu/100 mL | Membrane Filter APHA 9222 D |
| NO ₂ and NO ₃ -N | 0.89 | | | mg L ⁻¹ | APHA 4110 B |
| Oil & Grease | <2 | | 2 | mg L ⁻¹ | USEPA 1664 |
| pH | 7.2 | | 6.5-8.5 | pH units | APHA 4500-H ⁺ B |
| Soluble Reactive P (SRP) | <0.005 | | | mg L ⁻¹ | APHA 4110 B |
| Total phosphorus | Unavail able | delayed re-test | 0.3 | mg L ⁻¹ | APHA 4500 P E |
| TKN - N | 3.7 | | | mg L ⁻¹ | APHA 4500-N _{org} C |
| TN | 4.6 | | 10 | mg L ⁻¹ | TKN + NO ₂ +NO ₃ |
| Total suspended solids TSS | 45 | elevated | 15 | mg L ⁻¹ | 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 Weir - elemental analysis | | | | | | | | | | |
|--------------------------------------|------|------|------|------|-----|----------|---------|------|------------|----------|
| NOVEMBER 2022 | Na | K | Mg | Ca | SAR | Hardness | Sulphur | TDS | Alkalinity | Chloride |
| Glen Innes-15NOV22 | mg/L | mg/L | mg/L | mg/L | | mg/L | mg/L | mg/L | mg/L | mg/L |
| | 53.3 | 10.3 | 22.5 | 29.1 | 1.8 | 165 | 18.0 | 373 | 120 | 79 |

