

Analysis of Water Sample

Client Glen Innes Severn Council,

Glen Innes Sewage Treatment Works *Report* 28th October 2021

Water Sample collected 19th October 2021 Analysis complete 28th October 2021

Sample collected by Nicole Wilson **Samples received chilled** 19th October 2021

RESULTS - Glen Innes - 19th October 2021

mg L⁻¹ = part per million)

| Parameter | | Licence Limit (90th%ile) | Units | Method |
|--|-------------|-----------------------------|---------------------|--|
| Ammonia NH ₃ -N | 1.1 | 2 | mg L ⁻¹ | APHA 4500-NH ₃ C |
| Biochemical Oxygen Demand (5 days) | 8.0 | 10 | mg L ⁻¹ | APHA 5210 B |
| Elect. conductivity (EC) | 522 | | uS cm ⁻¹ | APHA 2510 B |
| Faecal Coliforms | 2 | 200 | cfu/ 100 mL | Membrane Filter APHA 9222 D |
| NO ₂ and NO ₃ -N | 2.12 | | mg L ⁻¹ | APHA 4110 B |
| Oil & Grease | <2 | 2 | mg L ⁻¹ | USEPA 1664 |
| pH | 7.22 | 6.5-8.5 | pH units | APHA 4500-H ⁺ B |
| Soluble Reactive P (SRP) | 0.24 | | mg L ⁻¹ | APHA 4110 B |
| Total phosphorus | 0.44 | 0.3 | mg L ⁻¹ | APHA 4500 P E |
| TKN - N | 5.4 | | mg L ⁻¹ | APHA 4500-N _{org} C |
| TN | 7.5 | 10 | mg L ⁻¹ | TKN + NO ₂ +NO ₃ |
| Total suspended solids TSS | 25 | 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 | | | | | | | | | | |
|--------------------------------------|------|------|------|------|-----|----------|---------|------|------------|----------|
| OCTOBER 2021 | Na | K | Mg | Ca | SAR | Hardness | Sulphur | TDS | Alkalinity | Chloride |
| OCTOBER 2021 | mg/L | mg/L | mg/L | mg/L | | mg/L | mg/L | mg/L | mg/L | mg/L |
| | 61.4 | 10.8 | 23.4 | 27.8 | 2.1 | 166 | 17.2 | 350 | 120 | 61 |