

Analysis of Water Sample

Client Glen Innes Severn Council,
 Glen Innes Sewage Treatment Works Report 6th March 2022
 Water Sample collected as shown Analysis complete 6th March 2022
 Sample collected by Emily Leach
 Samples received chilled - 1st March 2022

RESULTS - Glen Innes 1st March 2022

mg L⁻¹ = part per million)

| Parameter | | | Licence Limit (90th %ile) | Units | Method |
|--|-------|--|------------------------------|---------------------|--|
| Ammonia NH ₃ -N | 0.45 | | 2 | mg L ⁻¹ | APHA 4500-NH ₃ C |
| Biochemical Oxygen Demand (5 days) | 4.7 | | 10 | mg L ⁻¹ | APHA 5210 B |
| Elect. conductivity (EC) | 332 | | | uS cm ⁻¹ | APHA 2510 B |
| Faecal Coliforms | 76 | | 200 | cfu/ 100 mL | Membrane Filter APHA 9222 D |
| NO ₂ and NO ₃ -N | 1.56 | | | 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) | 0.052 | | | mg L ⁻¹ | APHA 4110 B |
| Total phosphorus | 0.120 | | 0.3 | mg L ⁻¹ | APHA 4500 P E |
| TKN - N | 2.9 | | | mg L ⁻¹ | APHA 4500-N _{org} C |
| TN | 4.5 | | 10 | mg L ⁻¹ | TKN + NO ₂ +NO ₃ |
| Total suspended solids TSS | 15 | | 15 | mg L ⁻¹ | APHA 2540 D |
| | | | | | |

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 | | | | | | | | | | |
|--------------------------------------|------|------|------|------|-----|----------|---------|------|------------|----------|
| March 2022 | Na | K | Mg | Ca | SAR | Hardness | Sulphur | TDS | Alkalinity | Chloride |
| Glen Innes - 01MAR22 | mg/L | mg/L | mg/L | mg/L | | mg/L | mg/L | mg/L | mg/L | mg/L |
| | 25.7 | 4.5 | 14.0 | 17.9 | 1.1 | 103 | 9.1 | 222 | 95 | 33 |

