

Analysis of Water Sample

Client Glen Innes Severn Council,
 Glen Innes Sewage Treatment Works *Report 20th August 2023*
Water Sample collected 15th August 2023 *Analysis complete* 20th August 2023
Sample collected by Emily Leach *Samples received chilled* 15th August 2023

RESULTS - GLEN INNES - 15th August 2023

mg L⁻¹ = part per million)

Parameter			EPA Limit 90 th %ile	Units	Method
Ammonia NH ₃ -N	4.7	Elevated	2.0	mg L ⁻¹	APHA 4500-NH ₃ C
Biochemical Oxygen Demand (5 days)	5.9		10	mg L ⁻¹	APHA 5210 B
Elect. conductivity (EC)	738			uS cm ⁻¹	APHA 2510 B
Faecal Coliforms	2		200	cfu/ 100 mL	Membrane Filter APHA 9222 D
NO ₂ and NO ₃ -N	0.95			mg L ⁻¹	APHA 4110 B
Oil & Grease	<2		2	mg L ⁻¹	USEPA 1664
pH	7.67		6.8-8.5	pH units	APHA 4500-H ⁺ B
Soluble Reactive P (SRP)	1.97			mg L ⁻¹	APHA 4110 B
Total phosphorus	2.01	Elevated	0.3	mg L ⁻¹	APHA 4500 P E
TKN - N	8.4			mg L ⁻¹	APHA 4500-N _{org} C
TN	9.3		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 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										
AUGUST 2023	Na	K	Mg	Ca	SAR	Hardness	Sulphur	TDS	Alkalinity	Chloride
Glen Innes- 15AUG23	mg/L	mg/L	mg/L	mg/L		mg/L	mg/L	mg/L	mg/L	mg/L
	75.5	16.7	29.9	38.0	2.2	218	28.1	494	237	66

