

Analysis of Water Sample

Client Glen Innes Severn Council,

Glen Innes Sewage Treatment Works

Report 6th November 2023

Water Sample collected 31st October 2023

Analysis complete 5th November 2023

Sample collected by Emily Leach

Samples received chilled 31st October 2023

RESULTS - GLEN INNES - 31st October 2023

mg L⁻¹ = part per million)

Parameter			EPA Limit 90 th %ile	Units	Method
Ammonia NH ₃ -N	2.21	elevated	2.0	mg L ⁻¹	APHA 4500-NH ₃ C
Biochemical Oxygen Demand (5 days)	7.7		10	mg L ⁻¹	APHA 5210 B
Elect. conductivity (EC)	894			uS cm ⁻¹	APHA 2510 B
Faecal Coliforms	<1		200	cfu/ 100 mL	Membrane Filter APHA 9222 D
NO ₂ and NO ₃ -N	2.26			mg L ⁻¹	APHA 4110 B
Oil & Grease	<2		2	mg L ⁻¹	USEPA 1664
pH	7.50		6.8-8.5	pH units	APHA 4500-H ⁺ B
Soluble Reactive P (SRP)	0.10			mg L ⁻¹	APHA 4110 B
Total phosphorus	0.49	elevated	0.3	mg L ⁻¹	APHA 4500 P E
TKN - N	4.9			mg L ⁻¹	APHA 4500-N _{org} C
TN	7.2		10	mg L ⁻¹	TKN + NO ₂ +NO ₃
Total suspended solids TSS	20	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 STP - elemental analysis										
October 2023	Na	K	Mg	Ca	SAR	Hardness	Sulphur	TDS	Alkalinity	Chloride
Glen Innes- 31OCT23	mg/L	mg/L	mg/L	mg/L		mg/L	mg/L	mg/L	mg/L	mg/L
	95.2	23.4	31.3	39.2	2.8	227	32.2	599	170	157

