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Quality Assurance and Quality Control by Approved Methods

Analysis of Water Sample

Client Glen Innes Severn Council,
 Glen Innes Sewage Treatment Works Report 25th August 2024
 Water Sample collected 20th August 2024 Analysis complete 25th August 2024
 Sample collected by Emily Leach Samples received chilled 20th August 2024

RESULTS - GLEN INNES - 20th August 2024

mg L⁻¹ = part per million)

Parameter			EPA Limit 90 th %ile	Units	Method
Ammonia NH ₃ -N	0.81		2.0	mg L ⁻¹	APHA 4500-NH ₃ C
Biochemical Oxygen Demand (5 days)	3.1		10	mg L ⁻¹	APHA 5210 B
Elect. conductivity (EC)	629			uS cm ⁻¹	APHA 2510 B
Faecal Coliforms	<1		200	cfu/ 100 mL	Membrane Filter APHA 9222 D
NO ₂ and NO ₃ -N	3.51			mg L ⁻¹	APHA 4110 B
Oil & Grease	<2		2	mg L ⁻¹	USEPA 1664
pH	7.31		6.8-8.5	pH units	APHA 4500-H ⁺ B
Soluble Reactive P (SRP)	0.07			mg L ⁻¹	APHA 4110 B
Total phosphorus	0.14		0.3	mg L ⁻¹	APHA 4500 P E
TKN - N	1.8			mg L ⁻¹	APHA 4500-N _{org} C
TN	5.3		10	mg L ⁻¹	TKN + NO ₂ +NO ₃
Total suspended solids TSS	3		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 2024	Na	K	Mg	Ca	SAR	Hardness	Sulphur	TDS	Alkalinity	Chloride
Glen	mg/L	mg/L	mg/L	mg/L		mg/L	mg/L	mg/L	mg/L	mg/L
Innes-20AUG24	63.8	12.7	23.2	23.3	2.2	154	52.2	421	82	51



Commercial and research laboratory for soil, water and plant analysis.
 Soil survey and analytical assessments, landscape analysis and plant nutrient relationships,
 Wastewater and effluent reuse specialists - on-site and decentralised