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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 19th December 2021 Water Sample collected 14th December 2021 Analysis complete 19th December 2021 Sample collected by Nicole Wilson Samples received chilled 14th December 2021

RESULTS - Glen Innes -14th December 2021

mg L-1 = part per million)

Parameter		Licence Limit (90th%ile)	Units	Method		
Ammonia NH ₃ -N	8.5	2	mg L ⁻¹	APHA 4500-NH ₃ C		
Biochemical Oxygen Demand (5 days)	4.4	10	mg L ⁻¹	APHA 5210 B		
Elect. conductivity (EC)	432		uS cm ⁻¹	APHA 2510 B		
Faecal Coliforms	4	200	cfu/ 100 mL	Membrane Filter APHA 9222 D		
NO ₂ and NO ₃ -N	2.37		mg L ⁻¹	APHA 4110 B		
Oil & Grease	<2	2	mg L ⁻¹	USEPA 1664		
рН	7.32	6.5-8.5	pH units	APHA 4500-H ⁺ B		
Soluble Reactive P (SRP)	0.106		mg L ⁻¹	APHA 4110 B		
Total phosphorus	0.180	0.3	mg L ⁻¹	APHA 4500 P E		
TKN - N	4.0		mg L ⁻¹	APHA 4500-N _{org} C		
TN	6.4	10	mg L ⁻¹	$TKN + NO_2 + NO_3$		
Total suspended solids TSS	33	15	mg L ⁻¹	APHA 2540 D		

0 < 0.x = measured but reading below detection level

Reference: APHA (2005) *Standard Meth230ods 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											
December 2021	Na	K	Mg	Ca	SAR	Hardness	Sulphur	TDS	Alkalinity	Chloride	
Glen Innes-	mg/L	mg/L	mg/L	mg/L		mg/L	mg/L	mg/L	mg/L	mg/L	
14DEC21	39.2	6.3	20.5	22.8	1.4	141	12.2	289	108	43	

