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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 9<sup>th</sup> July 2023 Water Sample collected* 4<sup>th</sup> July 2023 Analysis complete 9<sup>th</sup> July 2023 *Sample collected by* Emily Leach Samples received chilled 4<sup>th</sup> July 2023

Parameter			EPA Limit 90 <sup>th</sup> %ile	Units	Method	
Ammonia NH <sub>3</sub> -N	7.79	Elevated	2.0	mg L <sup>-1</sup>	APHA 4500-NH <sub>3</sub> C	
Biochemical Oxygen Demand (5 days)	4.4		10	mg L <sup>-1</sup>	APHA 5210 B	
Elect. conductivity (EC)	780			uS cm <sup>-1</sup>	APHA 2510 B	
Faecal Coliforms	<1		200	cfu/ 100 mL	Membrane Filter APHA 9222 D	
NO <sub>2</sub> and NO <sub>3</sub> -N	0.74			mg L <sup>-1</sup>	APHA 4110 B	
Oil & Grease	<2		2	mg L <sup>-1</sup>	USEPA 1664	
pH	7.33		6.8-8.5	pH units	APHA 4500-H <sup>+</sup> B	
Soluble Reactive P (SRP)	0.02			mg L <sup>-1</sup>	APHA 4110 B	
Total phosphorus	0.11		0.3	mg L <sup>-1</sup>	APHA 4500 P E	
TKN - N	11.7			mg L <sup>-1</sup>	APHA 4500-N <sub>org</sub> C	
TN	12.4	Elevated	10	mg L <sup>-1</sup>	$TKN + NO_2 + NO_3$	
Total suspended solids TSS	8		15	mg L <sup>-1</sup>	APHA 2540 D	

## **RESULTS - GLEN INNES - 4th July 2023**

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										
JULY 2023	Na	ĸ	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-04JUL23	68.5	16.5	27.5	33.1	2.1	196	25.3	523	134	165



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