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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 25<sup>th</sup> November 2024

Water Sample collected 19<sup>th</sup> November 2024 Analysis complete 25<sup>th</sup> November 2024

Sample collected by Emily Leach Samples received chilled 19<sup>th</sup> November 2024

RESULTS - GLEN INNES - 19<sup>th</sup> November 2024

mg L-1 = part per million)

Parameter		EPA Limit 90 <sup>th</sup> %ile	Units	Method
Ammonia NH <sub>3</sub> -N	0.77	2.0	mg L <sup>-1</sup>	APHA 4500-NH <sub>3</sub> C
Biochemical Oxygen Demand (5 days)	9.1	10	mg L <sup>-1</sup>	APHA 5210 B
Elect. conductivity (EC)	711		uS cm <sup>-1</sup>	APHA 2510 B
Faecal Coliforms	9	200	cfu/ 100 mL	Membrane Filter APHA 9222 D
NO <sub>2</sub> and NO <sub>3</sub> -N	3.02		mg L <sup>-1</sup>	APHA 4110 B
Oil & Grease	<2	2	mg L <sup>-1</sup>	USEPA 1664
pН	7.31	6.8-8.5	pH units	APHA 4500-H <sup>+</sup> B
Soluble Reactive P (SRP)	0.014		mg L <sup>-1</sup>	APHA 4110 B
Total phosphorus	0.17	0.3	mg L <sup>-1</sup>	APHA 4500 P E
TKN - N	0.8		mg L <sup>-1</sup>	APHA 4500-N <sub>org</sub> C
TN	7.0	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

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 STP - elemental analysis											
Glen Innes - 19NOV24	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	
19NOV24	70.9	15.5	23.8	30.1	2.3	173	60.3	476	75	60	

