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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 28<sup>th</sup> May 2024  
 Water Sample collected 21<sup>st</sup> May 2024 Analysis complete 28<sup>th</sup> May 2024  
 Sample collected by Emily Leach Samples received chilled 16<sup>th</sup> April 2024

### RESULTS - GLEN INNES - 21<sup>st</sup> May 2024

mg L<sup>-1</sup> = part per million)

Parameter			EPA Limit 90 <sup>th</sup> %ile	Units	Method
Ammonia NH <sub>3</sub> -N	1.15		2.0	mg L <sup>-1</sup>	APHA 4500-NH <sub>3</sub> C
Biochemical Oxygen Demand (5 days)	7.0		10	mg L <sup>-1</sup>	APHA 5210 B
Elect. conductivity (EC)	776			uS cm <sup>-1</sup>	APHA 2510 B
Faecal Coliforms	6		200	cfu/ 100 mL	Membrane Filter APHA 9222 D
NO <sub>2</sub> and NO <sub>3</sub> -N	6.63			mg L <sup>-1</sup>	APHA 4110 B
Oil & Grease	<2		2	mg L <sup>-1</sup>	USEPA 1664
pH	7.36		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	0.16		0.3	mg L <sup>-1</sup>	APHA 4500 P E
TKN - N	1.8			mg L <sup>-1</sup>	APHA 4500-N <sub>org</sub> C
TN	8.4		10	mg L <sup>-1</sup>	TKN + NO <sub>2</sub> +NO <sub>3</sub>
Total suspended solids TSS	5		15	mg L <sup>-1</sup>	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										
MAY 2024	Na	K	Mg	Ca	SAR	Hardness	Sulphur	TDS	Alkalinity	Chloride
	mg/L	mg/L	mg/L	mg/L		mg/L	mg/L	mg/L	mg/L	mg/L
Innes-21MAY24	80.5	15.1	28.2	31.3	2.5	194	59.9	520	88	71



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