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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 January 2022
Water Sample collected 18th January 2022 Analysis complete 25th December 2022
Sample collected by Nicole Wilson Samples received chilled 4th January 2022

RESULTS - Glen Innes 18th January 2022

mg L^{-1} = part per million)

Parameter			**Licence Limit (90th%ile)**	***Units***	***Method***
Ammonia NH_3-N	0.69		2	mg L^{-1}	APHA 4500-NH_3 C
Biochemical Oxygen Demand (5 days)	8.0		10	mg L^{-1}	APHA 5210 B
Elect. conductivity (EC)	728			uS cm^{-1}	APHA 2510 B
Faecal Coliforms	12		200	cfu/ 100 mL	Membrane Filter APHA 9222 D
NO_2 and NO_3 -N	0.69			mg L^{-1}	APHA 4110 B
Oil & Grease	<2		2	mg L^{-1}	USEPA 1664
pH	7.54		6.5-8.5	pH units	APHA 4500-H^+ B
Soluble Reactive P (SRP)	0.020			mg L^{-1}	APHA 4110 B
Total phosphorus	**0.60**		0.3	mg L^{-1}	APHA 4500 P E
TKN - N	4.5			mg L^{-1}	APHA 4500-N_{org} C
TN	5.2		10	mg L^{-1}	TKN + NO_2+NO_3
Total suspended solids TSS	**37**		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										
January 2022	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
18JAN22	81.8	16.4	25.7	32.4	2.6	187	23.5	488	160	122