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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 31st July 2023*
Water Sample collected 25th July 2023 Analysis complete 31st July 2023
Sample collected by Emily Leach Samples received chilled 25th July 2023

RESULTS - GLEN INNES - 25th July 2023

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

Parameter			EPA Limit 90th %ile	*Units*	*Method*
Ammonia NH_3-N	16	Elevated	2.0	mg L^{-1}	APHA 4500-NH_3 C
Biochemical Oxygen Demand (5 days)	10.4		10	mg L^{-1}	APHA 5210 B
Elect. conductivity (EC)	862			uS cm^{-1}	APHA 2510 B
Faecal Coliforms	32		200	cfu/ 100 mL	Membrane Filter APHA 9222 D
NO_2 and NO_3 -N	0.39			mg L^{-1}	APHA 4110 B
Oil & Grease	<2		2	mg L^{-1}	USEPA 1664
pH	7.71		6.8-8.5	pH units	APHA 4500-H^+ B
Soluble Reactive P (SRP)	0.35			mg L^{-1}	APHA 4110 B
Total phosphorus	0.52		0.3	mg L^{-1}	APHA 4500 P E
TKN - N	24.9			mg L^{-1}	APHA 4500-N_{org} C
TN	25.3	Elevated	10	mg L^{-1}	TKN + NO_2+NO_3
Total suspended solids TSS	15		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 STP - elemental analysis										
JULY 2023	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
25JUL23	75.7	17.5	30.7	33.6	2.3	210	28.7	578	295	68