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ALGAL REPORT

CLIENT:	Australian Laboratory Services Pty Ltd SA				
LABORATORY NO./BATCH NO.:	7428779 22-19601				
LOCALITY:	EM2207234-011				
SITE:	Tilley D/S Nth O/L				
SAMPLE:	Surface				
DATE SAMPLED :	21/04/2022				
DATE ANALYSED :	27/04/2022				
SAMPLED BY:	Sample analysed as received				

COMMENTS: + A diverse range of algal taxa were observed. Current levels are unlikely to impact water quality.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0242 1 : 1	Toxigenic (T) or Potentially toxic (P)	- 200x 20	- 100x 500	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)		
BACILLARIOPHYCEAE									
Chaetoceros			4	0	195	200	0.03905		
Pennales			3	0	146	300	0.04394		
Pennales (small <20um)			1	0	49	251	0.01225		
CHLOROPHYCEAE									
Chlorococcoids (<10um)			66	0	3222	60	0.19332		
CYANOPHYCEAE									
Planktolyngbya			75	0	3661	3.8	0.01391		
Pseudanabaena			23	0	1123	12.5	0.01404		
Synechococcales small (iauv <20)			78	0	3808	5.25	0.01999		
OTHER PHYTOPLANKTON									
Other small flagellates			4	0	195	80	0.01562		
TOTAL BGA		8592				0.04794			
TOTAL TOXIGENIC BGA		0				0.00000			
TOTAL POTENTIALLY TOXIC BGA				0		0.00000			
TOTAL ALGAE				12399		0.35213			

⁺ The comments are discretionary and are for the purpose of helping to understand WQ implications. The comments are not accredited by NATA.

The biovolume values reported are those derived from documented information, including scientific literature. These are average values and not those measured on individual samples.

A Certificate of analysis will follow, linked by the above batch number. Independent algal reports are forwarded to clients expeditiously to facilitate operational decision making.

ANALYST: Adam Deliyiannis (signatory) REVIEWED: Kirsten Mudie (signatory) DATE: 27/04/2022
Biologist Biologist

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^{*} P's and T's denote those cyanobacteria/blue-green algae (BGA) associated with toxin production in Australian waters. Overseas studies have shown other cyanobacteria to produce toxins. All contain lipopolysaccharides (LPS) in their cell wall and many have been found to produce β-N-methylamino-L-alanine (BMAA) and its analogues. Therefore all cyanobacteria could be considered to pose a level of risk.