

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7171306 21-46438
LOCALITY :	EM2119079-020
SITE :	Tilley U/S Morella
SAMPLE :	Surface
DATE SAMPLED :	22/09/2021
DATE ANALYSED :	28/09/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + Current levels of algal are unlikely to influence water quality.

Sedgewick-Rafter Vol.(ml)	1.0311	Toxicogenic (T) or Potentially toxic (P)			Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
Concentration	1 : 1	*	- 200x	- 100x			
Magnification			20	500			
Fields							

BACILLARIOPHYCEAE

Centrales		1	0	48	200	0.00970
Chaetoceros		1	0	48	200	0.00970
Encyonema		1	0	48	500	0.02425
Naviculales		1	0	48	1400	0.06789
Pennales		3	0	145	300	0.04364

CHLOROPHYCEAE

Ankistrodesmoideae		59	0	2861	132	0.37765
Chlorococcoids (<10um)		9	0	436	60	0.02619
Closterium		0	1	2	4130	0.00801
Monoraphidium		1	0	48	900	0.04364
Oocystis		1	0	48	300	0.01455
Scenedesmus		0	4	8	250	0.00194

CYANOPHYCEAE

Synechococcales small (iauv <20)		61	0	2958	5.25	0.01553
Synechococcales large (iauv 20-86)		0	16	31	54	0.00168

DINOPHYCEAE

Gymnodiniales (small)		1	0	48	500	0.02425
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OTHER PHYTOPLANKTON

Other small flagellates		6	0	291	80	0.02328
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TOTAL BGA	2989	0.01721
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	7068	0.69188

ANALYST: **Kirsten Mudie (signatory)**
Biologist

REVIEWED: **Adam Deliyiannis**
Biologist

DATE: **28/09/2021**

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+ 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.

* 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.