

## ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	187812 22-45580
LOCALITY :	EM2209350-008
SITE :	Morella Basin @ O/L
SAMPLE :	Surface
DATE SAMPLED :	19/05/2022
DATE ANALYSED :	24/05/2022
SAMPLED BY :	Sample analysed as received

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

Sedgewick-Rafter Vol.(ml)	1.024	Toxicogenic (T) or Potentially toxic (P)	- 200x	- 100x	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um <sup>3</sup> )	Total Biovolume (mm <sup>3</sup> /L)
Concentration	1 : 1	*	20	500			
Magnification							
Fields							

### BACILLARIOPHYCEAE

Pennales		1	0	49	300	0.01465
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### CHLOROPHYCEAE

Chlorococcoids (<10um)		2	0	98	60	0.00586
Oocystis		5	0	244	300	0.07324
Planctonema		0	26	51	800	0.04063

### CRYPTOPHYCEAE

Cryptomonads		1	0	49	320	0.01563
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### CYANOPHYCEAE

Synechococcales small (iauv <20)		2	0	98	5.25	0.00051
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### DINOPHYCEAE

Gymnodiniales		14	0	684	2000	1.36719
Peridinales		4	0	195	5000	0.97656

### EUGLENOPHYCEAE

Euglena		1	0	49	7000	0.34180
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TOTAL BGA	98	0.00051
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	1517	2.83606

+ 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  $\beta$ -N-methylamino-L-alanine (BMAA) and its analogues. Therefore all cyanobacteria could be considered to pose a level of risk.

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

REVIEWED: **Adam Deliyannis (signatory)**  
Biologist

DATE: **24/05/2022**

METHOD NO.: MB010/MW024VCA

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