

## ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7394994 22-15545
LOCALITY :	EM2204816-022
SITE :	Tilley U/S Morella
SAMPLE :	Surface
DATE SAMPLED :	17/03/2022
DATE ANALYSED :	25/03/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + Current levels are unlikely to impact water quality.

Sedgewick-Rafter Vol.(ml)	1.0046	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

<i>Chaetoceros</i>		2	0	100	200	0.01991
<i>Naviculales</i>		1	0	50	1400	0.06968
<i>Pennales</i>		2	0	100	300	0.02986

### CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>		1	0	50	132	0.00657
<i>Chlorococcoids (&lt;10um)</i>		7	0	348	60	0.02090
<i>Monoraphidium (small)</i>		45	0	2240	16	0.03584

### CYANOPHYCEAE

<i>Pseudanabaena</i>		5	0	249	12.5	0.00311
<i>Synechococcales small (iauv &lt;20)</i>		23	0	1145	5.25	0.00601

### DINOPHYCEAE

<i>Dinoflagellates</i>		0	5	10	20000	0.19908
<i>Peridinales</i>		0	1	2	5000	0.00995

### OTHER PHYTOPLANKTON

<i>Other small flagellates</i>		3	0	149	80	0.01195
<i>Prasinophytes</i>		1	0	50	100	0.00498

TOTAL BGA	1394	0.00912
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	4493	0.41784

ANALYST: *Adam Deliyannis (signatory)* REVIEWED: *Kirsten Mudie (signatory)*  
Biologist Biologist

DATE: 25/03/2022

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

ANALYST: *Adam Deliyannis (signatory)* REVIEWED: *Kirsten Mudie (signatory)*  
Biologist Biologist

DATE: **25/03/2022**

METHOD NO.: MB010/MW024VCA

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