

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7086212 21-35420
LOCALITY :	EM2113768-005
SITE :	Morella Basin @ O/L
SAMPLE :	Surface
DATE SAMPLED :	13/07/2021
DATE ANALYSED :	19/07/2021
SAMPLED BY :	Sample analysed as received

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

Sedgewick-Rafter Vol.(ml)	1.0303	Toxigenic (T) or Potentially toxic (P)	- 200x	- 100x	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
Concentration	1 : 1	*	20	500			
Magnification							
Fields							

BACILLARIOPHYCEAE

<i>Chaetoceros</i>	17	0	825	200	0.16500
<i>Naviculales</i>	0	1	2	1400	0.00272
<i>Nitzschia</i>	1	0	49	400	0.01941
<i>Pennales</i>	2	0	97	300	0.02912
<i>Pennales (small <20um)</i>	2	0	97	251	0.02436

CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>	7	0	340	132	0.04484
<i>Chlorococcoids (<10um)</i>	6	0	291	60	0.01747
<i>Scenedesmus</i>	0	4	8	250	0.00194

CYANOPHYCEAE

<i>Synechococcales small (iauv <20)</i>	78	0	3785	5.25	0.01987
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DINOPHYCEAE

<i>Dinoflagellates</i>	1	0	49	20000	0.97059
<i>Gymnodiniales (small)</i>	3	0	146	500	0.07279
<i>Peridinales</i>	2	0	97	5000	0.48530

OTHER PHYTOPLANKTON

<i>Other small flagellates</i>	4	0	194	80	0.01553
<i>Prasinophytes</i>	97	0	4707	100	0.47074
<i>Raphidophytes</i>	5	0	243	7000	1.69853

TOTAL BGA	3785	0.01987
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	10930	4.03822

ANALYST: *Adam Deliyannis*
Biologist

REVIEWED: *Kirsten Mudie (signatory)*
Biologist

DATE: **20/07/2021**

METHOD NO.: MB010/MW024VCA

Page 1 of 2

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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.