

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7428784 22-19601
LOCALITY :	EM2207234-016
SITE :	Morella Basin @ O/L
SAMPLE :	Surface
DATE SAMPLED :	21/04/2022
DATE ANALYSED :	27/04/2022
SAMPLED BY :	Sample analysed as received

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

Sedgewick-Rafter Vol.(ml)	1.032	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

Entomoneis		1	0	48	1000	0.04845
Pennales		73	0	3537	300	1.06105

CHLOROPHYCEAE

Chlorococcoids (<10um)		2	0	97	60	0.00581
Oocystis		4	0	194	300	0.05814

CYANOPHYCEAE

Chroococcus (small cells)		0	2	4	12	0.00005
Planktolyngbya		10	0	484	3.8	0.00184
Synechococcales small (iauv <20)		36	0	1744	5.25	0.00916

DINOPHYCEAE

Gymnodiniales		11	0	533	2000	1.06589
Gymnodiniales (small)		3	0	145	500	0.07267
Peridinales		6	0	291	5000	1.45349

TOTAL BGA	2232	0.01104
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	7077	3.77655

+ 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.

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

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

DATE: **27/04/2022**

METHOD NO.: MB010/MW024VCA

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