

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7791230 22-70934
LOCALITY :	EM2218950-009
SITE :	Morella Creek @Gauge
SAMPLE :	Surface
DATE SAMPLED :	29/09/2022
DATE ANALYSED :	7/10/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A moderate range of algal were observed. Current levels are unlikely to impact water quality.

Sedgewick-Rafter Vol.(ml)	1.0151	Toxicogenic (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

Amphora	1	0	49	500	0.02463
Pennales	1	0	49	300	0.01478
Pennales (small <20um)	2	0	99	251	0.02473

CHLOROPHYCEAE

Chlorococcoids (<10um)	60	0	2955	60	0.17732
Lagerheimia	2	0	99	500	0.04926
Monoraphidium (small)	73	0	3596	16	0.05753
Oocystis	4	0	197	300	0.05911

CYANOPHYCEAE

Synechococcales small (iauv <20)	37	0	1822	5.25	0.00957
----------------------------------	----	---	------	------	---------

DINOPHYCEAE

Peridinales	5	0	246	5000	1.23141
-------------	---	---	-----	------	---------

OTHER PHYTOPLANKTON

Other small flagellates	4	0	197	80	0.01576
Prasinophytes	1	0	49	100	0.00493

TOTAL BGA	1822	0.00957
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	9358	1.66901

+ 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: *Adam Deliyannis (signatory)* REVIEWED: *Natalie Alabaster*
Biologist Biologist

DATE: **07/10/2022**

METHOD NO.: MB010/MW024VCA

Page 1 of 1