

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7064961 21-32332
LOCALITY :	EM2112381-006
SITE :	Morella Basin @Gauge
SAMPLE :	Surface
DATE SAMPLED :	28/06/2021
DATE ANALYSED :	1/07/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A moderately diverse algal community was observed, however combined levels are unlikely to impair water quality.

Sedgewick-Rafter Vol.(ml)	1.0018	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>Cocconeis</i>		0	10	20	450	0.00898
<i>Fragilariaceae</i>		25	0	1248	500	0.62388
<i>Naviculales</i>		1	0	50	1400	0.06987
<i>Nitzschia</i>		180	0	8984	400	3.59353

CHLOROPHYCEAE

<i>Chlorococcoids</i>		4	0	200	500	0.09982
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CHRYSTOPHYCEAE

<i>Other Chrysophytes</i>		0	9	18	200	0.00359
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DINOPHYCEAE

<i>Amphidinium</i>		1	0	50	2000	0.09982
<i>Dinoflagellates</i>		0	2	4	20000	0.07986
<i>Gymnodiniales</i>		4	0	200	2000	0.39928
<i>Gymnodiniales (small)</i>		0	2	4	500	0.00200
<i>Peridinales</i>		9	0	449	5000	2.24596

OTHER PHYTOPLANKTON

<i>Other small flagellates</i>		3	0	150	80	0.01198
<i>Prasinophytes</i>		125	0	6239	100	0.62388
<i>Raphidophytes</i>		10	0	499	7000	3.49371

TOTAL BGA	0	0.00000
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	18115	11.35616

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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.