

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	6956321 21-18638
LOCALITY :	EM2106129-018
SITE :	3.2KM South of Salt Creek
SAMPLE :	Surface
DATE SAMPLED :	7/04/2021
DATE ANALYSED :	14/04/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse range of algae was observed. Water quality may be impacted.

Sedgewick-Rafter Vol.(ml)	1.0169	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>Centrales</i>		1	0	49	200	0.00983
<i>Nitzschia</i>		230	0	11309	400	4.52355
<i>Pennales</i>		1	0	49	300	0.01475

CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>		610	0	29993	132	3.95909
<i>Chlamydomonads</i>		8	0	393	250	0.09834
<i>Chlorococcoids (<10um)</i>		240	0	11801	60	0.70803
<i>Selenastrum</i>		1	0	49	250	0.01229

CRYPTOPHYCEAE

<i>Cryptomonads</i>		14	0	688	320	0.22028
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CYANOPHYCEAE

<i>Pseudanabaena</i>		0	26	51	12.5	0.00064
<i>Spirulina</i>		0	1200	2360	5.73	0.01352
<i>Synechococcales small (iauv <20)</i>		4840	0	237978	5.25	1.24939

DINOPHYCEAE

<i>Dinoflagellates</i>		6	0	295	20000	5.90029
<i>Gymnodiniales (small)</i>		2	0	98	500	0.04917

OTHER PHYTOPLANKTON

<i>Other small flagellates</i>		70	0	3442	80	0.27535
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TOTAL BGA	240389	1.26355
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	298555	17.03452

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

REVIEWED: **Adam Deliyannis**
Biologist

DATE: **15/04/2021**

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.