

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	6956323 21-18638
LOCALITY :	EM2106129-020
SITE :	Seagull Island
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)	1.0199	Toxigenic (T) or Potentially toxic (P)	- 200x	- 100x	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um ³)	Total Biovolume (mm ³ /L)
Concentration	1 : 1	*	20	500			
Magnification							
Fields							

BACILLARIOPHYCEAE

<i>Nitzschia</i>		172	0	8432	400	3.37288
<i>Pennales</i>		1	0	49	300	0.01471

CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>		172	0	8432	132	1.11305
<i>Chlamydomonads</i>		5	0	245	250	0.06128
<i>Chlorococcoids (<10um)</i>		316	0	15492	60	0.92950
<i>Oocystis</i>		1	0	49	300	0.01471

CRYPTOPHYCEAE

<i>Cryptomonads</i>		6	0	294	320	0.09413
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CYANOPHYCEAE

<i>Pseudanabaena</i>		0	23	45	12.5	0.00056
<i>Spirulina</i>		0	1900	3726	5.73	0.02135
<i>Synechococcales small (iauv <20)</i>		1516	0	74321	5.25	0.39019

DINOPHYCEAE

<i>Dinoflagellates</i>		13	0	637	20000	12.74635
<i>Gymnodiniales (small)</i>		3	0	147	500	0.07354

OTHER PHYTOPLANKTON

<i>Other small flagellates</i>		40	0	1961	80	0.15688
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TOTAL BGA	78092	0.41210
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	113830	18.98912

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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.