

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7116657 21-39298
LOCALITY :	EM2115770-013
SITE :	Seagull Island
SAMPLE :	Surface
DATE SAMPLED :	9/08/2021
DATE ANALYSED :	13/08/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed. Current levels are likely to impact water quality.

Sedgewick-Rafter Vol.(ml)	1.0333	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>Amphora</i>		1	0	48	500	0.02419
<i>Cocconeis</i>		5	0	242	450	0.10887
<i>Hantzschia</i>		0	2	4	500	0.00194
<i>Nitzschia</i>		28	0	1355	400	0.54195
<i>Pennales (small <20um)</i>		9	0	435	251	0.10931

CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>		57	0	2758	132	0.36408
<i>Chlorococcoids (<10um)</i>		97	0	4694	60	0.28162

CRYPTOPHYCEAE

<i>Cryptomonads</i>		2	0	97	320	0.03097
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CYANOPHYCEAE

<i>Planktolyngbya</i>		6	0	290	3.8	0.00110
<i>Synechococcales small (iauv <20)</i>		25280	0	1223265	5.25	6.42214

DINOPHYCEAE

<i>Gymnodiniales (small)</i>		13	0	629	500	0.31453
<i>Peridinales</i>		0	2	4	5000	0.01936

OTHER PHYTOPLANKTON

<i>Other small flagellates</i>		2	0	97	80	0.00774
<i>Raphidophytes</i>		4	0	194	7000	1.35488

TOTAL BGA	1223555	6.42325
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	1234112	9.58269

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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.