

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7064958 21-32332
LOCALITY :	EM2112381-003
SITE :	Sth Policeman Point
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. Current combined levels are likely to impair water quality.

Sedgewick-Rafter Vol.(ml)	1.0272	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>		3	0	146	500	0.07301
<i>Cocconeis</i>		3	0	146	450	0.06571
<i>Naviculales</i>		1	0	49	1400	0.06815
<i>Nitzschia</i>		128	0	6231	400	2.49221
<i>Pennales (small <20um)</i>		28	0	1363	251	0.34210

CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>		196	0	9540	132	1.25935
<i>Chlamydomonads</i>		1	0	49	250	0.01217
<i>Chlorococcoids (<10um)</i>		180	0	8762	60	0.52570

CYANOPHYCEAE

<i>Planktolyngbya</i>		47	0	2288	3.8	0.00869
<i>Synechococcales small (iauv <20)</i>		26880	0	1308411	5.25	6.86916

DINOPHYCEAE

<i>Dinoflagellates</i>		0	5	10	20000	0.19470
<i>Gymnodiniales (small)</i>		46	0	2239	500	1.11955

OTHER PHYTOPLANKTON

<i>Other small flagellates</i>		50	0	2434	80	0.19470
<i>Raphidophytes</i>		23	0	1120	7000	7.83684

TOTAL BGA	1310699	6.87785
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	1342788	21.06204

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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.