

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7064957 21-32332
LOCALITY :	EM2112381-002
SITE :	North Jacks 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 impact water quality.

Sedgewick-Rafter Vol.(ml)	1.0255	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	0.07314
<i>Cocconeis</i>		1	0	49	450	0.02194
<i>Grammatophora</i>		0	1	2	2000	0.00390
<i>Naviculales</i>		0	1	2	1400	0.00273
<i>Nitzschia</i>		22	0	1073	400	0.42906
<i>Pennales (small <20um)</i>		12	0	585	251	0.14686
<i>Pleurosigma</i>		0	2	4	2000	0.00780

CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>		172	0	8386	132	1.10697
<i>Chlorococcoids (<10um)</i>		124	0	6046	60	0.36275

CYANOPHYCEAE

<i>Planktolyngbya</i>		30	0	1463	3.8	0.00556
<i>Synechococcales small (iauv <20)</i>		34880	0	1700634	5.25	8.92833

DINOPHYCEAE

<i>Dinoflagellates</i>		1	0	49	20000	0.97513
<i>Gymnodiniales</i>		20	0	975	2000	1.95027

OTHER PHYTOPLANKTON

<i>Other small flagellates</i>		11	0	536	80	0.04291
<i>Raphidophytes</i>		37	0	1804	7000	12.62799

TOTAL BGA	1702097	8.93389
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	1721754	26.68532

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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.