

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7217247 21-52414
LOCALITY :	EM2121437-011
SITE :	North Jacks Point
SAMPLE :	Surface
DATE SAMPLED :	26/10/2021
DATE ANALYSED :	9/11/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse range of algal taxa was observed. Excessive levels of low biovolume BGA Synechococcales will impact water quality.

Sedgewick-Rafter Vol.(ml)	1.0303	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>Amphora</i>	1	0	49	500	0.02426
<i>Centrales</i>	1	0	49	200	0.00971
<i>Pennales</i>	4	0	194	300	0.05824
<i>Pennales (small <20um)</i>	9	0	437	251	0.10963
<i>Pleurosigma</i>	0	2	4	2000	0.00776

CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>	488	0	23682	132	3.12608
<i>Chlorococcoids (<10um)</i>	85	0	4125	60	0.24750

CYANOPHYCEAE

<i>Synechococcales small (iauv <20)</i>	16800	0	815297	5.25	4.28031
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DINOPHYCEAE

<i>Gymnodiniales</i>	1	0	49	2000	0.09706
<i>Gymnodiniales (small)</i>	12	0	582	500	0.29118

OTHER PHYTOPLANKTON

<i>Other small flagellates</i>	32	0	1553	80	0.12424
<i>Raphidophytes</i>	2	0	97	7000	0.67941

TOTAL BGA	815297	4.28031
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	846118	9.05537

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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.