

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7136736 21-41798
LOCALITY :	EM2116912-014
SITE :	Snipe Point
SAMPLE :	Surface
DATE SAMPLED :	24/08/2021
DATE ANALYSED :	27/08/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse algal community was observed. Excessive levels of low biovolume BGA are likely to impact water quality.

Sedgewick-Rafter Vol.(ml)	1.0199	Toxigenic (T) or Potentially toxic (P)			Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
Concentration	1 : 1	*	- 200x	- 100x			
Magnification			20	500			
Fields							

BACILLARIOPHYCEAE

Naviculales		0	1	2	1400	0.00275
Nitzschia		2	0	98	400	0.03922
Pennales		1	0	49	300	0.01471

CHLOROPHYCEAE

Ankistrodesmoideae		53	0	2598	132	0.34297
Chlorococcoids (<10um)		27	0	1324	60	0.07942

CHRYSTOPHYCEAE

Other Chrysophytes		1	0	49	200	0.00980
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CYANOPHYCEAE

Synechococcales small (iauv <20)		11760	0	576527	5.25	3.02677
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DINOPHYCEAE

Gymnodiniales		1	0	49	2000	0.09805
Gymnodiniales (small)		2	0	98	500	0.04902

OTHER PHYTOPLANKTON

Other small flagellates		41	0	2010	80	0.16080
Raphidophytes		2	0	98	7000	0.68634

TOTAL BGA	576527	3.02677
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	582902	4.50985

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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.