

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7086211 21-35420
LOCALITY :	EM2113768-004
SITE :	Snipe Point
SAMPLE :	Surface
DATE SAMPLED :	13/07/2021
DATE ANALYSED :	19/07/2021
SAMPLED BY :	Sample analysed as received

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

Sedgewick-Rafter Vol.(ml)	1.0169	Toxigenic (T) or Potentially toxic (P)			Total Cell Count (cells/mL)	Individual Algal Unit Volume (um ³)	Total Biovolume (mm ³ /L)
Concentration	1 : 1	*	- 200x	- 100x			
Magnification			20	500			
Fields							

BACILLARIOPHYCEAE

<i>Nitzschia</i>		2	0	98	400	0.03934
<i>Pennales</i>		1	0	49	300	0.01475
<i>Pennales (small <20um)</i>		1	0	49	251	0.01234

CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>		58	0	2852	132	0.37644
<i>Chlorococcoids (<10um)</i>		22	0	1082	60	0.06490

CYANOPHYCEAE

<i>Planktolyngbya</i>		12	0	590	3.8	0.00224
<i>Synechococcales small (iauv <20)</i>		24480	0	1203658	5.25	6.31921

DINOPHYCEAE

<i>Dinoflagellates</i>		2	0	98	20000	1.96676
<i>Gymnodiniales (small)</i>		12	0	590	500	0.29501
<i>Peridinales</i>		1	0	49	5000	0.24585

OTHER PHYTOPLANKTON

<i>Other small flagellates</i>		21	0	1033	80	0.08260
<i>Prasinophytes</i>		4	0	197	100	0.01967
<i>Raphidophytes</i>		19	0	934	7000	6.53948

TOTAL BGA	1204248	6.32145
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	1211279	15.97859

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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.