

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7116661 21-39298
LOCALITY :	EM2115770-017
SITE :	Salt Creek Outlet
SAMPLE :	Surface
DATE SAMPLED :	9/08/2021
DATE ANALYSED :	13/08/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed. High levels of the BGA Synechococcales are likely to impact water quality.

Sedgewick-Rafter Vol.(ml)	1.0199	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>	0	2	4	500	0.00196
<i>Nitzschia</i>	4	0	196	400	0.07844
<i>Pennales</i>	8	0	392	300	0.11766
<i>Pennales (small <20um)</i>	5	0	245	251	0.06153

CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>	10	0	490	132	0.06471
<i>Chlorococcoids (<10um)</i>	47	0	2304	60	0.13825

CYANOPHYCEAE

<i>Planktolyngbya</i>	4	0	196	3.8	0.00075
<i>Synechococcales small (iauv <20)</i>	28320	0	1388371	5.25	7.28895

DINOPHYCEAE

<i>Gymnodiniales (small)</i>	11	0	539	500	0.26963
<i>Peridinales</i>	1	0	49	5000	0.24512

OTHER PHYTOPLANKTON

<i>Other small flagellates</i>	17	0	833	80	0.06667
<i>Prasinophytes</i>	2	0	98	100	0.00980
<i>Raphidophytes</i>	5	0	245	7000	1.71585

TOTAL BGA	1388567	7.28970
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	1393962	10.05933

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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.