

## ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7086215 21-35420
LOCALITY :	EM2113768-008
SITE :	1.8km W of Salt Ck
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 impact on water quality.

Sedgewick-Rafter Vol.(ml)	1.0242	Toxicogenic (T) or Potentially toxic (P)	- 200x	- 100x	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um <sup>3</sup> )	Total Biovolume (mm <sup>3</sup> /L)
Concentration	1 : 1	*	20	500			
Magnification							
Fields							

### BACILLARIOPHYCEAE

<i>Amphora</i>		0	1	2	500	0.00098
<i>Nitzschia</i>		2	0	98	400	0.03905
<i>Pennales</i>		1	0	49	300	0.01465
<i>Pennales (small &lt;20um)</i>		1	0	49	251	0.01225

### CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>		44	0	2148	132	0.28354
<i>Chlorococcoids (&lt;10um)</i>		30	0	1465	60	0.08787

### CYANOPHYCEAE

<i>Limnithrix/Geitlerinema/Anagnostidinema</i>	P	0	39	76	17.5	0.00133
<i>Planktolyngbya</i>		5	0	244	3.8	0.00093
<i>Synechococcales small (iauv &lt;20)</i>		23920	0	1167741	5.25	6.13064

### DINOPHYCEAE

<i>Gymnodiniales (small)</i>		7	0	342	500	0.17087
<i>Peridinales</i>		1	0	49	5000	0.24409

### OTHER PHYTOPLANKTON

<i>Other small flagellates</i>		30	0	1465	80	0.11716
<i>Prasinophytes</i>		5	0	244	100	0.02441
<i>Raphidophytes</i>		56	0	2734	7000	19.13689

TOTAL BGA	1168061	6.13290
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	76	0.00133
TOTAL ALGAE	1176706	26.26466

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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  $\beta$ -N-methylamino-L-alanine (BMAA) and its analogues. Therefore all cyanobacteria could be considered to pose a level of risk.