

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7152226 21-43664
LOCALITY :	EM2118068-017
SITE :	Salt Creek Outlet
SAMPLE :	Surface
DATE SAMPLED :	8/09/2021
DATE ANALYSED :	14/09/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + High levels of small BGA were noted, sufficient to impair water quality.

Sedgewick-Rafter Vol.(ml)	1.032	Toxicogenic (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>Entomoneis</i>	0	1	2	1000	0.00194
<i>Naviculales</i>	0	2	4	1400	0.00543
<i>Nitzschia</i>	0	6	12	400	0.00465
<i>Pennales</i>	2	0	97	300	0.02907

CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>	36	0	1744	132	0.23023
<i>Chlorococcoids (<10um)</i>	84	0	4070	60	0.24419

CRYPTOPHYCEAE

<i>Cryptomonads</i>	1	0	48	320	0.01550
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CYANOPHYCEAE

<i>Synechococcales small (iauv <20)</i>	11268	0	545930	5.25	2.86613
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DINOPHYCEAE

<i>Gymnodiniales</i>	2	0	97	2000	0.19380
<i>Gymnodiniales (small)</i>	1	0	48	500	0.02422

OTHER PHYTOPLANKTON

<i>Other small flagellates</i>	36	0	1744	80	0.13953
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TOTAL BGA	545930	2.86613
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	553796	3.75470

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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.

ANALYST: **Kirsten Mudie (signatory)**
Biologist

REVIEWED: **Adam Deliyannis**
Biologist

DATE: **14/09/2021**

METHOD NO.: MB010/MW024VCA

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