

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7056270 21-31436
LOCALITY :	EM2111820-008
SITE :	1.8km W of Salt Ck
SAMPLE :	Surface
DATE SAMPLED :	21/06/2021
DATE ANALYSED :	24/06/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse range of algal taxa was observed with low biovolume BGA Synechococcales most numerous. Current levels are likely to impact on water quality.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0303 1 : 1	Toxicogenic (T) or Potentially toxic (P) *	- 200x 20	- 100x 500	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um ³)	Total Biovolume (mm ³ /L)
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BACILLARIOPHYCEAE

<i>Naviculales</i>		0	1	2	1400	0.00272
<i>Nitzschia</i>		124	0	6018	400	2.40707
<i>Pennales</i>		1	0	49	300	0.01456

CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>		213	0	10337	132	1.36446
<i>Carteria</i>		2	0	97	300	0.02912
<i>Chlorococcoids (<10um)</i>		300	0	14559	60	0.87353

CHRYSTOPHYCEAE

<i>Other Chrysophyceae</i>		1	0	49	350	0.01699
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CRYPTOPHYCEAE

<i>Cryptomonads</i>		3	0	146	320	0.04659
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CYANOPHYCEAE

<i>Planktolyngbya</i>		12	0	582	3.8	0.00221
<i>Synechococcales small (iauv <20)</i>		14160	0	687178	5.25	3.60769

DINOPHYCEAE

<i>Dinoflagellates</i>		12	0	582	20000	11.64709
<i>Gymnodiniales</i>		3	0	146	2000	0.29118
<i>Gymnodiniales (small)</i>		13	0	631	500	0.31544

OTHER PHYTOPLANKTON

<i>Other small flagellates</i>		24	0	1165	80	0.09318
<i>Prasinophytes</i>		2	0	97	100	0.00971

ANALYST: *Adam Deliyannis*
Biologist

REVIEWED: *Karen Simonsen (signatory)*
Biologist

DATE: **24/06/2021**

METHOD NO.: MB010/MW024VCA

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Sedgewick-Rafter Vol.(ml)	1.0303	Toxigenic (T) or Potentially toxic (P)	- 200x	- 100x	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um ³)	Total Biovolume (mm ³ /L)
Concentration	1 : 1	*	20	500			
Magnification							
Fields							

TOTAL BGA	687760	3.60990
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	721638	20.72152

+ 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: **Adam Deliyiannis**
Biologist

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Biologist

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