

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7328731 22-06265
LOCALITY :	EM2201088-002
SITE :	3.2km Sth of Salt Ck
SAMPLE :	Surface
DATE SAMPLED :	20/01/2022
DATE ANALYSED :	1/02/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + Current algal levels are sufficient to impair water quality (eg: discolouration).

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0333 1 : 1	Toxigenic (T) or Potentially toxic (P) *	- 200x 20	- 100x 500	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
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BACILLARIOPHYCEAE

Centrales		2	0	97	200	0.01936
Naviculales		1	0	48	1400	0.06774
Nitzschia		220	0	10646	400	4.25820
Pennales		6	0	290	300	0.08710
Pennales (small <20um)		160	0	7742	251	1.94329

CHLOROPHYCEAE

Ankistrodesmoideae		4060	0	196458	132	25.93245
Chlamydomonads		1	0	48	250	0.01210
Chlorococcoids (<10um)		6580	0	318397	60	19.10384
Oocystis		10	0	484	300	0.14517

CRYPTOPHYCEAE

Cryptomonads		7	0	339	320	0.10839
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CYANOPHYCEAE

Synechococcales small (iauv <20)		51800	0	2506532	5.25	13.15930
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DINOPHYCEAE

Gymnodiniales		22	0	1065	2000	2.12910
Gymnodiniales (small)		2	0	97	500	0.04839

OTHER PHYTOPLANKTON

Other small flagellates		4	0	194	80	0.01548
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TOTAL BGA	2506532	13.15930
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	3042437	67.02990

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

REVIEWED: **Adam Deliyannis (signatory)**
Biologist

DATE: **01/02/2022**

METHOD NO.: MB010/MW024VCA

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Concentration	1 : 1	*	20	500			
Magnification							
Fields							

+ 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.

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