

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7548893 22-57206
LOCALITY :	EM2213882-010
SITE :	1.8km W of Salt Ck
SAMPLE :	Surface
DATE SAMPLED :	21/07/2022
DATE ANALYSED :	26/07/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa were observed. Current levels are likely to impact water quality.

Sedgewick-Rafter Vol.(ml)	1.0272	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>Naviculales</i>		1	0	49	1400	0.06815
<i>Nitzschia</i>		1	0	49	400	0.01947
<i>Pennales</i>		1	0	49	300	0.01460

CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>		260	0	12656	132	1.67056
<i>Chlorococcoids (<10um)</i>		1520	0	73988	60	4.43925

CRYPTOPHYCEAE

<i>Cryptomonads</i>		1	0	49	320	0.01558
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CYANOPHYCEAE

<i>Oscillatoriales (iauv 1-100)</i>	P	0	34	66	60.8	0.00402
<i>Planktolyngbya</i>		20	0	974	3.8	0.00370
<i>Pseudanabaena</i>		0	11	21	12.5	0.00027
<i>Synechococcales small (iauv <20)</i>		14000	0	681464	5.25	3.57769

DINOPHYCEAE

<i>Dinoflagellates</i>		0	3	6	20000	0.11682
<i>Gymnodiniales</i>		4	0	195	2000	0.38941
<i>Gymnodiniales (small)</i>		9	0	438	500	0.21904
<i>Peridinales</i>		2	0	97	5000	0.48676

OTHER PHYTOPLANKTON

<i>Other small flagellates</i>		440	0	21417	80	1.71340
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TOTAL BGA	682525	3.58568
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	66	0.00402
TOTAL ALGAE	791518	12.73872

ANALYST: *Adam Deliyannis (signatory)* REVIEWED: *Louise Ungemach (signatory)*
Biologist Biologist

DATE: 27/07/2022

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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: **Adam Deliyiannis (signatory)** REVIEWED: **Louise Ungemach (signatory)**
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