

22 Dalmore Drive Scoresby 3179 Tel. 03 8756 8183 Fax. 03 9763 1862





ALGAL REPORT

CLIENT:	Australian Laboratory Services Pty Ltd SA				
LABORATORY NO./BATCH NO.:	7684093 22-64966				
LOCALITY:	EM2216764-001				
SITE:	Murray Mouth				
SAMPLE:	Surface				
DATE SAMPLED :	30/08/2022				
DATE ANALYSED :	8/09/2022				
SAMPLED BY:	Sample analysed as received				

COMMENTS: + A diverse algal community was observed. Current combined levels are insufficient to influence water quality.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0284 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)
BACILLARIOPHYCEAE							
Aulacoseira			28	0	1361	2860	3.89343
Fragilariaceae			1	0	49	500	0.02431
Nitzschia			1	0	49	400	0.01945
Pennales			0	1	2	300	0.00058
Pennales (small <20um)			4	0	194	251	0.04881
CHLOROPHYCEAE							
Botryococcus			0	40	78	98	0.00762
Chlamydomonads			1	0	49	250	0.01215
Chlorococcoids (<10um)			4	0	194	60	0.01167
Crucigenia			16	0	778	30	0.02334
Monoraphidium (small)			22	0	1070	16	0.01711
Monoraphidium (large)			2	0	97	400	0.03890
Oocystis (small)			6	0	292	100	0.02917
Pediastrum			4	0	194	60	0.01167
Planctonema			30	0	1459	800	1.16686
Scenedesmus			14	0	681	250	0.17017
Tetrastrum			12	0	583	40	0.02334
CHRYSOPHYCEAE							
Other Chrysophytes			1	0	49	200	0.00972
CRYPTOPHYCEAE		1					
Cryptomonads			9	0	438	320	0.14002
CYANOPHYCEAE							
Leptolyngbya			0	18	35	2.36	0.00008
Limnolyngbya			112	0	5445	4.9	0.02668
Planktolyngbya			196	0	9529	3.8	0.03621

ANALYST: Karen Simonsen (signatory) **Biologist**

REVIEWED: Lauren Minett (signatory)

Biologist

DATE: 08/09/2022

METHOD NO.: MB010/MW024VCA



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Romeria			8	0	389	31	0.01206
Synechococcales small (iauv <20)			14	0	681	5.25	0.00357
DINOPHYCEAE							
Gymnodiniales (small)			1	0	49	500	0.02431

TOTAL BGA	16079	0.07861
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	23745	5.75124

⁺ 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.

ANALYST: Karen Simonsen (signatory) REVIEWED: Lauren Minett (signatory) DATE: 08/09/2022

Biologist Biologist

METHOD NO.: MB010/MW024VCA Page 2 of 2

^{*} 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.