

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. :	7281150 21-59669			
LOCALITY:	EM2125413-009			
SITE:	Murray Mouth			
SAMPLE:	Surface			
DATE SAMPLED :	13/12/2021			
DATE ANALYSED :	20/12/2021			
SAMPLED BY:	Sample analysed as received			

**COMMENTS: +** Excessive levels of small BGA will impair water quality and may pose a health risk.

	0105 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							
Asterionellopsis		2	0	99	500	0.04948	
Pennales		24	0	1188	300	0.35626	
CHLOROPHYCEAE							
Chlorococcoids (<10um)		800	0	39584	60	2.37506	
Colonial green (cells)		26	0	1286	100	0.12865	
Crucigenia		64	0	3167	30	0.09500	
Dictyosphaerium		144	0	7125	20	0.14250	
Elakatothrix		0	2	4	45	0.00018	
Lagerheimia		8	0	396	500	0.19792	
Monoraphidium (small)		68	0	3365	16	0.05383	
Monoraphidium (large)		1	0	49	400	0.01979	
Nephrocytium		1	0	49	200	0.00990	
Oocystis		80	0	3958	300	1.18753	
Planctonema		80	0	3958	800	3.16675	
Scenedesmus		20	0	990	250	0.24740	
Schroederia		1	0	49	550	0.02721	
Tetraedron		1	0	49	150	0.00742	
Tetrastrum		16	0	792	40	0.03167	
CRYPTOPHYCEAE	ı	1	1	1			
Cryptomonads		52	0	2573	320	0.82335	
CYANOPHYCEAE							
Limnolyngbya (Planktolyngbya circumcreta)		584	0	28897	4.9	0.14159	
Planktolyngbya		1612	0	79762	3.8	0.30310	
Romeria		16	0	792	31	0.02454	
Synechococcales small (iauv <20)		3128	0	154775	5.25	0.81257	

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

REVIEWED: Adam Deliyiannis (signatory)

Biologist

DATE: **22/12/2021** 

METHOD NO.: MB010/MW024VCA



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Sedgewick-Rafter Vol.(ml) Concentration Magnification	1.0105 1 : 1	Toxigenic (T) or Potentially toxic (P)	- 200x	- 100x	Total Cell Count (cells/mL)	Individual Algal Unit Volume	Total Biovolume (mm3/L)
Fields		*	20	500	(cells/mL)	(um3)	(mm3/L)

TOTAL BGA	264226	1.28180
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	332907	10.20172

<sup>+</sup> 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: Kirsten Mudie (signatory) REVIEWED: Adam Deliyiannis (signatory) DATE: 22/12/2021
Biologist Biologist

METHOD NO.: MB010/MW024VCA Page 2 of 2

<sup>\*</sup> 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.