

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





## **ALGAL REPORT**

CLIENT:	Australian Laborator	Australian Laboratory Services Pty Ltd SA		
LABORATORY NO./BATCH NO.:	7086214	21-35420		
LOCALITY:	EM2113768-007			
SITE:	Salt Creek Outlet			
SAMPLE:	Surface			
DATE SAMPLED :	13/07/2021			
DATE ANALYSED :	19/07/2021			
SAMPLED BY:	Sample analysed as	s received		

COMMENTS: + A diverse community of algal taxa was observed. Excessive levels of low biovolume BGA Synechococcales are likely to impact on water quality.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0208 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							
Amphora			1	0	49	500	0.02449
Nitzschia			0	13	25	400	0.01019
Pennales			1	0	49	300	0.01469
Pennales (small <20um)			1	0	49	251	0.01229
CHLOROPHYCEAE							
Ankistrodesmoideae			51	0	2498	132	0.32974
Chlorococcoids (<10um)			45	0	2204	60	0.13225
CYANOPHYCEAE							
Planktolyngbya			5	0	245	3.8	0.00093
Synechococcales small (iauv <20)			22800	0	1116771	5.25	5.86305
DINOPHYCEAE							
Dinoflagellates			3	0	147	20000	2.93887
Gymnodiniales			3	0	147	2000	0.29389
Gymnodiniales (small)			7	0	343	500	0.17143
OTHER PHYTOPLANKTON							
Other small flagellates			10	0	490	80	0.03918
Prasinophytes			4	0	196	100	0.01959
Raphidophytes			39	0	1910	7000	13.37187
TOTAL BGA		1117016				5.86398	
TOTAL TOXIGENIC BGA TOTAL POTENTIALLY TOXIC BGA					0		0.00000
					0		0.00000
TOTAL ALGAE					1125123		23.22247

ANALYST: Adam Deliyiannis
Biologist

REVIEWED: Kirsten Mudie (signatory)
Biologist

METHOD NO.: MB010/MW024VCA

DATE: **20/07/2021** 

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DATE: 20/07/2021



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Ī	Sedgewick-Rafter Vol.(ml)	1.0208	Toxigenic				Individual	
1	Concentration	1:1	(T) or Potentially			Total Cell	Algal Unit	Total
1	Magnification		toxic (P)	- 200x	- 100x	Count (cells/mL)	Volume	Biovolume (mm3/L)
1	Fields		*	20	500	(Cells/IIIL)	(um3)	(111113/L)

<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: Adam Deliyiannis
Biologist

REVIEWED: Kirsten Mudie (signatory)
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.