

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.:	7136739 21-41798					
LOCALITY:	EM2116912-017					
SITE:	Salt Creek Outlet					
SAMPLE:	Surface					
DATE SAMPLED :	24/08/2021					
DATE ANALYSED :	27/08/2021					
SAMPLED BY:	Sample analysed as received					

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

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0272 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			0	1	2	500	0.00097
Nitzschia			5	0	243	400	0.09735
Pennales			1	0	49	300	0.01460
Pennales (small <20um)			2	0	97	251	0.02444
CHLOROPHYCEAE							
Ankistrodesmoideae			110	0	5354	132	0.70678
Chlorococcoids (<10um)			17	0	827	60	0.04965
CHRYSOPHYCEAE							
Other Chrysophytes			3	0	146	200	0.02921
CYANOPHYCEAE							
Planktolyngbya			5	0	243	3.8	0.00092
Synechococcales small (iauv <20)			12800	0	623053	5.25	3.27103
DINOPHYCEAE							
Gymnodiniales			1	0	49	2000	0.09735
Gymnodiniales (small)			4	0	195	500	0.09735
Peridiniales			1	0	49	5000	0.24338
OTHER PHYTOPLANKTON							
Other small flagellates			112	0	5452	80	0.43614
Raphidophytes			3	0	146	7000	1.02220
TOTAL BGA		623296				3.27195	
TOTAL TOXIGENIC BGA		0				0.00000	
TOTAL POTENTIALLY TOXIC BGA		0				0.00000	
TOTAL ALGAE		635905				6.09136	

ANALYST: Adam Deliyiannis **Biologist** 

REVIEWED: Kirsten Mudie (signatory)

**Biologist** 

DATE: 30/08/2021

METHOD NO.: MB010/MW024VCA



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Magnification		toxic (P)	- 200x	- 100x	Count (cells/mL)	Volume	Biovolume (mm3/L)
Fields		*	20	500	(OCHS/IIIL)	(um3)	(111110/12)

<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

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

**Biologist** 

DATE: 30/08/2021

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<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.