

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. :	7064963 21-32332					
LOCALITY:	EM2112381-008					
SITE:	1.8km W of Salt Ck					
SAMPLE:	Surface					
DATE SAMPLED :	28/06/2021					
DATE ANALYSED :	1/07/2021					
SAMPLED BY:	Sample analysed as received					

COMMENTS: + A moderately diverse algal community was observed. Current combined levels are likely to impact water quality.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0407 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			3	0	144	500	0.07207
Cocconeis			3	0	144	450	0.06486
Nitzschia			140	0	6726	400	2.69050
Pennales (small <20um)			8	0	384	251	0.09647
CHLOROPHYCEAE							
Ankistrodesmoideae			280	0	13452	132	1.77573
Chlamydomonads			3	0	144	250	0.03603
Chlorococcoids (<10um)			248	0	11915	60	0.71490
CYANOPHYCEAE							
Planktolyngbya			6	0	288	3.8	0.00110
Synechococcales small (iauv <20)			56330	0	2706351	5.25	14.20835
DINOPHYCEAE							
Dinoflagellates			0	4	8	20000	0.15374
Gymnodiniales			57	0	2739	2000	5.47708
Peridiniales			1	0	48	5000	0.24022
OTHER PHYTOPLANKTON							
Other small flagellates			7	0	336	80	0.02690
Prasinophytes			2	0	96	100	0.00961
Raphidophytes			11	0	528	7000	3.69943
TOTAL BGA		2706639				14.20944	
TOTAL TOXIGENIC BGA		0				0.00000	
TOTAL POTENTIALLY TOXIC BGA		0				0.00000	
TOTAL ALGAE					2743303		29.26700

ANALYST: Karen Simonsen (signatory) REVIEWED: Louise Ungemach (signatory) DATE: 05/07/2021 Biologist **Biologist**

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Magnification		toxic (P)	- 200x	- 100x	Count (cells/mL)	Volume	Biovolume (mm3/L)
Fields		*	20	500	(Cells/IIIL)	(um3)	(111113/L)

⁺ 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: Louise Ungemach (signatory) DATE: 05/07/2021

Biologist Biologist

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^{*} 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.