

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.:	7394986	22-15545		
LOCALITY:	EM2204816-014			
SITE:	1.8km W of Salt Ck			
SAMPLE:	Surface			
DATE SAMPLED :	17/03/2022			
DATE ANALYSED :	25/03/2022			
SAMPLED BY:	Sample analysed as	received		

COMMENTS: + A moderately diverse algal community was observed. Current algal levels are sufficient to impair water quality (eg: discolouration).

	.024 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							
Nitzschia		610	0	29785	400	11.91406	
Pennales		1	0	49	300	0.01465	
Pennales (small <20um)		1	0	49	251	0.01226	
CHLOROPHYCEAE							
Ankistrodesmoideae		6020	0	293945	132	38.80078	
Carteria		1	0	49	300	0.01465	
Chlamydomonads		1	0	49	250	0.01221	
Chlorococcoids (<10um)		9380	0	458008	60	27.48047	
CRYPTOPHYCEAE							
Cryptomonads		8	0	391	320	0.12500	
CYANOPHYCEAE							
Limnothrix/Geitlerinema/Anagnostidinema	Р	0	125	244	17.5	0.00427	
Synechococcales small (iauv <20)		59360	0	2898438	5.25	15.21680	
DINOPHYCEAE							
Gymnodiniales		1	0	49	2000	0.09766	
Gymnodiniales (small)		4	0	195	500	0.09766	
OTHER PHYTOPLANKTON							
Other small flagellates		20	0	977	80	0.07813	
Prasinophytes		2	0	98	100	0.00977	
TOTAL BGA		2898682			15.22107		
TOTAL TOXIGENIC BGA		0			0.00000		
TOTAL POTENTIALLY TOXIC BGA		244			0.00427		
TOTAL ALGAE				3682326		93.87834	

ANALYST: Kirsten Mudie (signatory) REVIEWED: Adam Deliyiannis (signatory) DATE: 25/03/2022
Biologist Biologist

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Sedgewick-Rafter Vol.(ml) Concentration	1 · 1	Toxigenic (T) or Potentially			Total Cell	Individual Algal Unit	Total
Magnification		toxic (P)	- 200x	- 100x	Count (cells/mL)	Volume (um3)	Biovolume (mm3/L)
Fields		*	20	500	, ,	(3.110)	` ' '

⁺ 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.

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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.