

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.:	7328746 22-06265					
LOCALITY:	EM2201088-017					
SITE:	DS Tauwitchere					
SAMPLE:	Surface					
DATE SAMPLED :	21/01/2022					
DATE ANALYSED :	1/02/2022					
SAMPLED BY:	Sample analysed as received					

COMMENTS: + A highly diverse and abundant algal community was observed. Water quality is likely to be impaired.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.032 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									
Centrales			200	0	9690	200	1.93798		
Pennales			4	0	194	300	0.05814		
CHLOROPHYCEAE									
Botryococcus			0	160	310	98	0.03039		
Chlorococcoids (<10um)			92	0	4457	60	0.26744		
Colonial green (cells)			24	0	1163	100	0.11628		
Crucigenia			144	0	6977	30	0.20930		
Dictyosphaerium			112	0	5426	20	0.10853		
Eremosphaera			0	6	12	700	0.00814		
Lagerheimia			8	0	388	500	0.19380		
Monoraphidium (small)			28	0	1357	16	0.02171		
Monoraphidium (large)			1	0	48	400	0.01938		
Nephrocytium			24	0	1163	200	0.23256		
Oocystis			152	0	7364	300	2.20930		
Pediastrum			20	0	969	60	0.05814		
Planctonema			128	0	6202	800	4.96124		
Scenedesmus			80	0	3876	250	0.96899		
Staurastrum			1	0	48	2000	0.09690		
Tetraedron			8	0	388	150	0.05814		
Tetrastrum			48	0	2326	40	0.09302		
CRYPTOPHYCEAE									
Cryptomonads			12	0	581	320	0.18605		
CYANOPHYCEAE									
Aphanizomenonaceae family - straight		Р	46	0	2229	67	0.14932		
Chroococcus (small cells)			0	12	23	12	0.00028		

ANALYST: Kirsten Mudie (signatory) REVIEWED: Adam Deliyiannis (signatory) DATE: 02/02/2022
Biologist Biologist

METHOD NO.: MB010/MW024VCA Page 1 of 2



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Cuspidothrix issatschenkoi		0	265	514	57	0.02927	
Limnolyngbya (Planktolyngbya circumcreta)		3160	0	153101	4.9	0.75019	
Limnothrix/Geitlerinema/Anagnostidinema	Р	0	40	78	17.5	0.00136	
Oscillatoriales (iauv 101-200)	Р	0	135	262	142.8	0.03736	
Planktolyngbya		2730	0	132267	3.8	0.50262	
Pseudanabaena		35	0	1696	12.5	0.02120	
Synechococcales small (iauv <20)		1520	0	73643	5.25	0.38663	
EUGLENOPHYCEAE							
Euglena		0	1	2	7000	0.01357	
TOTAL BGA		363813				1.87823	
TOTAL TOXIGENIC BGA		0				0.00000	
TOTAL POTENTIALLY TOXIC BGA		2569				0.18804	
TOTAL ALGAE		416754				13.72722	

⁺ 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.

* 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.

ANALYST: Kirsten Mudie (signatory) REVIEWED: Adam Deliyiannis (signatory) DATE: 02/02/2022
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