

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.:	7394975 22-15545					
LOCALITY:	EM2204816-003					
SITE:	DS Tauwitchere					
SAMPLE:	Surface					
DATE SAMPLED :	16/03/2022					
DATE ANALYSED :	25/03/2022					
SAMPLED BY:	Sample analysed as received					

COMMENTS: + A highly diverse algal community was observed. Current algal levels may mildly influence water quality.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0168 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							
Aulacoseira			5	0	246	2860	0.70319
Centrales			316	0	15539	200	3.10779
Pennales			28	0	1377	300	0.41306
CHLOROPHYCEAE							
Botryococcus			0	40	79	98	0.00771
Chlamydomonads			1	0	49	250	0.01229
Chlorococcoids (<10um)			58	0	2852	60	0.17113
Colonial green (cells)			36	0	1770	100	0.17703
Crucigenia			112	0	5507	30	0.16522
Dictyosphaerium			32	0	1574	20	0.03147
Dimorphococcus			14	0	688	20	0.01377
Lagerheimia			1	0	49	500	0.02459
Monoraphidium (small)			30	0	1475	16	0.02360
Monoraphidium (large)			2	0	98	400	0.03934
Oocystis			28	0	1377	300	0.41306
Planctonema			97	0	4770	800	3.81589
Scenedesmus			48	0	2360	250	0.59009
Staurastrum			1	0	49	2000	0.09835
Tetraedron			1	0	49	150	0.00738
Tetrastrum			8	0	393	40	0.01574
CRYPTOPHYCEAE							
Cryptomonads			1	0	49	320	0.01574
CYANOPHYCEAE							
Aphanizomenonaceae family - straight		Р	21	0	1033	67	0.06919
Cuspidothrix issatschenkoi			32	0	1574	57	0.08969

ANALYST: Kirsten Mudie (signatory)

Biologist

REVIEWED: Adam Deliyiannis (signatory)

Biologist

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METHOD NO.: MB010/MW024VCA

DATE: **25/03/2022** 



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Limnolyngbya			1710	0	84087	4.9	0.41203
Planktolyngbya			2070	0	101790	3.8	0.38680
Pseudanabaena			12	0	590	12.5	0.00738
Raphidiopsis		Р	7	0	344	59	0.02031
Romeria			5	0	246	31	0.00762
Synechococcales small (iauv <20)			3180	0	156373	5.25	0.82096
EUGLENOPHYCEAE							
Euglena			2	0	98	7000	0.68843
TOTAL BGA		346037				1.81398	
TOTAL TOXIGENIC BGA		0				0.00000	
TOTAL POTENTIALLY TOXIC BGA		1377				0.08950	
TOTAL ALGAE		386485				12.34883	

<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.

\* 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: 25/03/2022
Biologist Biologist

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