

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. :	6933875 21-15798				
LOCALITY:	EM2104707_012				
SITE:	US Tauwitchere				
SAMPLE:	Surface				
DATE SAMPLED :	18/03/2021				
DATE ANALYSED :	22/03/2021				
SAMPLED BY:	Sample analysed as received				

COMMENTS: + A highly diverse algal community was observed with excessive levels of low biovolume BGA noted. Water quality will be impaired and health concerns may be warranted.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0255 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			64	0	3120	200	0.62409
Nitzschia			2	0	98	400	0.03901
Pennales			8	0	390	300	0.11702
CHLOROPHYCEAE							
Ankistrodesmus			36	0	1755	132	0.23169
Botryococcus			0	180	351	98	0.03440
Chlorococcoids (<10um)			10	0	488	60	0.02925
Colonial green (cells)			68	0	3315	100	0.33155
Crucigenia			128	0	6241	30	0.18723
Dictyosphaerium			22	0	1073	20	0.02145
Didymocystis			2	0	98	41	0.00400
Elakatothrix			1	0	49	45	0.00219
Eremosphaera			4	0	195	700	0.13652
Golenkinia			12	0	585	400	0.23403
Hyaloraphidium			16	0	780	750	0.58508
Lagerheimia			24	0	1170	500	0.58508
Oocystis			224	0	10922	300	3.27645
Pediastrum			12	0	585	60	0.03510
Planctonema			768	0	37445	800	29.95612
Scenedesmus			32	0	1560	250	0.39005
Schroederia			1	0	49	550	0.02682
Selenastrum			40	0	1950	250	0.48757
Tetraedron			2	0	98	150	0.01463
Tetrastrum			128	0	6241	40	0.24963
CYANOPHYCEAE							

ANALYST: Kirsten Mudie (signatory)
Biologist

REVIEWED: Adam Deliyiannis
Biologist

METHOD NO.: MB010/MW024VCA

DATE: 23/03/2021



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	7255 Toxigenic (T) or Potentially toxic (P)	- 200x 20	- 100x 500	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)	
Aphanizomenonaceae family - straight	Р	75	0	3657	67	0.24500	
Cuspidothrix issatschenkoi		524	0	25549	57	1.45627	
Limnolyngbya (Planktolyngbya circumcreta)		1990	0	97026	4.9	0.47543	
Planktolyngbya		5660	0	275963	3.8	1.04866	
Raphidiopsis raciborskii	Т	67	0	3267	42	0.13720	
Synechococcales small (iauv <20)		27440	0	1337884	5.25	7.02389	
EUGLENOPHYCEAE							
Euglena		1	0	49	7000	0.34130	
OTHER PHYTOPLANKTON	OTHER PHYTOPLANKTON						
Other small flagellates		4	0	195	80	0.01560	
TOTAL BGA		1743346				10.38645	
TOTAL TOXIGENIC BGA		3267				0.13720	
TOTAL POTENTIALLY TOXIC BGA		3657				0.24500	
TOTAL ALGAE		1822148				48.34230	

⁺ 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 DATE: 23/03/2021
Biologist Biologist

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