

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.:	7366796 22-11365					
LOCALITY:	EM2203091-002					
SITE:	US Tauwitchere					
SAMPLE:	Surface					
DATE SAMPLED :	22/02/2022					
DATE ANALYSED :	28/02/2022					
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	1.0199 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			180	0	8824	200	1.76488
Naviculales			1	0	49	1400	0.06863
Nitzschia			1	0	49	400	0.01961
Pennales			4	0	196	300	0.05883
CHLOROPHYCEAE							
Ankistrodesmus			6	0	294	132	0.03883
Botryococcus			0	260	510	98	0.04997
Chlamydomonads			4	0	196	250	0.04902
Chlorococcoids (<10um)			128	0	6275	60	0.37651
Closterium			0	1	2	4130	0.00810
Colonial green (cells)			8	0	392	100	0.03922
Crucigenia			144	0	7060	30	0.21179
Dictyosphaerium			120	0	5883	20	0.11766
Elakatothrix			2	0	98	45	0.00441
Eremosphaera			0	22	43	700	0.03020
Lagerheimia			8	0	392	500	0.19610
Monoraphidium (small)			60	0	2941	16	0.04706
Monoraphidium (large)			4	0	196	400	0.07844
Nephrocytium			2	0	98	200	0.01961
Oocystis			72	0	3530	300	1.05893
Pediastrum			0	14	27	60	0.00165
Planctonema			184	0	9020	800	7.21639
Scenedesmus			56	0	2745	250	0.68634
Staurastrum			2	0	98	2000	0.19610
Tetraedron			16	0	784	150	0.11766

ANALYST: Kirsten Mudie (signatory)

Biologist

REVIEWED: Adam Deliyiannis (signatory)
Biologist

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DATE: **28/02/2022**

METHOD NO.: MB010/MW024VCA



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Tetrastrum			48	0	2353	40	0.09413	
CRYPTOPHYCEAE								
Cryptomonads			8	0	392	320	0.12550	
CYANOPHYCEAE								
Aphanizomenonaceae family - straight		Р	13	0	637	67	0.04270	
Cuspidothrix issatschenkoi			32	0	1569	57	0.08942	
Limnolyngbya			3130	0	153446	4.9	0.75189	
Planktolyngbya			2420	0	118639	3.8	0.45083	
Raphidiopsis raciborskii		Т	0	7	14	42	0.00058	
Synechococcales small (iauv <20)			2510	0	123051	5.25	0.64602	
DINOPHYCEAE								
Gymnodiniales			0	1	2	2000	0.00392	
EUGLENOPHYCEAE								
Euglena			0	2	4	7000	0.02745	
OTHER PHYTOPLANKTON								
Other small flagellates			8	0	392	80	0.03138	
TOTAL BGA		397356				1.98143		
TOTAL TOXIGENIC BGA		14				0.00058		
TOTAL POTENTIALLY TOXIC BGA		637				0.04270		
TOTAL ALGAE			450201				14.71974	

⁺ 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: Kirsten Mudie (signatory) REVIEWED: Adam Deliyiannis (signatory) DATE: 28/02/2022
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.