

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.:	6750299 20-50047					
LOCALITY:	EM2018692_008					
SITE:	US Tauwitchere					
SAMPLE:	Surface					
DATE SAMPLED :	21/10/2020					
DATE ANALYSED :	26/10/2020					
SAMPLED BY:	Sample analysed as received					

COMMENTS: + A highly diverse algal community was observed with excessive levels of small BGA dominating. Water quality will 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			15	0	727	200	0.14535
Naviculales			0	2	4	1400	0.00543
Pennales			0	1	2	300	0.00058
CHLOROPHYCEAE							
Ankistrodesmus			3	0	145	132	0.01919
Ankyra			5	0	242	40	0.00969
Botryococcus			0	80	155	98	0.01519
Chlamydomonads			5	0	242	250	0.06056
Chlorococcoids (<10um)			435	0	21076	60	1.26453
Closterium			2	0	97	4130	0.40019
Colonial green (cells)			169	0	8188	100	0.81880
Crucigenia			180	0	8721	30	0.26163
Dictyosphaerium			16	0	775	20	0.01550
Didymocystis			10	0	484	41	0.01986
Elakatothrix			1	0	48	45	0.00218
Lagerheimia			45	0	2180	500	1.09012
Oocystis			360	0	17442	300	5.23256
Pediastrum			4	0	194	60	0.01163
Planctonema			850	0	41182	800	32.94574
Scenedesmus			20	0	969	250	0.24225
Schroederia			1	0	48	550	0.02665
Selenastrum			40	0	1938	250	0.48450
Tetraedron			1	0	48	150	0.00727
Tetrastrum			4	0	194	40	0.00775

ANALYST: Kirsten Mudie (signatory)
Biologist

METHOD NO.: MB010/MW024CV

REVIEWED: *Adam Deliyiannis*Biologist

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Other Chrysophyceae		5	0	242	350	0.08479		
CRYPTOPHYCEAE								
Cryptomonads		20	0	969	320	0.31008		
CYANOPHYCEAE								
Leptolyngbya		65	0	3149	2.36	0.00743		
Limnolyngbya (Planktolyngbya circumcreta)		505	0	24467	4.9	0.11989		
Planktolyngbya		650	0	31492	3.8	0.11967		
Romeria		23	0	1114	31	0.03454		
Synechococcales small (iauv <20)		16500	0	799419	5.25	4.19695		
OTHER PHYTOPLANKTON								
Other small flagellates		85	0	4118	80	0.32946		
TOTAL BGA		859641				4.47848		
TOTAL TOXIGENIC BGA		0				0.00000		
TOTAL POTENTIALLY TOXIC BGA		0				0.00000		
TOTAL ALGAE		970071				48.28995		

⁺ 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: 27/10/2020
Biologist Biologist

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