

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.:	6781611	20-54272	
LOCALITY:	EM2020558_002		
SITE:	US Tauwitchere		
SAMPLE:	Surface		
DATE SAMPLED :	17/11/2020		
DATE ANALYSED :	23/11/2020		
SAMPLED BY:	Sample analysed as received		

COMMENTS: + A highly diverse community of algal taxa was observed with excessive levels of small BGA dominating. Water quality is likely to be impacted.

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			0	6	12	200	0.00234
Pennales			0	1	2	300	0.00059
CHLOROPHYCEAE							
Ankistrodesmoideae			5	0	244	132	0.03218
Ankistrodesmus			2	0	98	132	0.01287
Chlamydomonads			1	0	49	250	0.01219
Chlorococcoids (<10um)			150	0	7314	60	0.43881
Colonial green (cells)			60	0	2925	100	0.29254
Crucigenia			680	0	33155	30	0.99464
Dictyosphaerium			0	132	257	20	0.00515
Hyaloraphidium			1	0	49	750	0.03657
Lagerheimia			11	0	536	500	0.26816
Oocystis			225	0	10970	300	3.29108
Pediastrum			19	0	926	60	0.05558
Planctonema			1790	0	87275	800	69.81960
Scenedesmus			16	0	780	250	0.19503
Schroederia			1	0	49	550	0.02682
Staurastrum			0	2	4	2000	0.00780
Tetrastrum			4	0	195	40	0.00780
CHRYSOPHYCEAE				1	1		
Other Chrysophyceae			1	0	49	350	0.01706
CRYPTOPHYCEAE							
Cryptomonads			1	0	49	320	0.01560
CYANOPHYCEAE				1	1		
Leptolyngbya			87	0	4242	2.36	0.01001

ANALYST: Adam Deliyiannis Biologist

REVIEWED: Kirsten Mudie (signatory)

Biologist

DATE: 23/11/2020

METHOD NO.: MB010/MW024VCA



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Limnolyngbya (Planktolyngbya circumcreta)		656	0	31984	4.9	0.15672
Planktolyngbya		220	0	10726	3.8	0.04076
Synechococcales small (iauv <20)		24320	0	1185763	5.25	6.22526
OTHER PHYTOPLANKTON						
Other small flagellates		12	0	585	80	0.04681
Prasinophytes		4	0	195	100	0.01950

TOTAL BGA	1232715	6.43275
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	1378433	82.03146

⁺ 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: Adam Deliyiannis
Biologist

REVIEWED: Kirsten Mudie (signatory)
Biologist

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