

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. :	6906823 21-12031					
LOCALITY:	EM2103113-012					
SITE:	US Tauwitchere					
SAMPLE:	Surface					
DATE SAMPLED :	24/02/2021					
DATE ANALYSED :	1/03/2021					
SAMPLED BY:	Sample analysed as received					

COMMENTS: + A highly diverse community of algal taxa was observed. The presence of toxigenic taxa should be noted. Curret levels are likely to impair water quality.

Sedgewick-Rafter Vol.(ml) 1.030 Concentration 1: Magnification Fields	(T)	- 200x 20	- 100x 500	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)					
BACILLARIOPHYCEAE											
Centrales		5	0	243	200	0.04853					
Nitzschia		2	0	97	400	0.03882					
Pennales		0	1	2	300	0.00058					
CHLOROPHYCEAE											
Ankistrodesmus		4	0	194	132	0.02562					
Chlorococcoids (<10um)		20	0	971	60	0.05824					
Closterium		0	10	19	4130	0.08017					
Colonial green (cells)		55	0	2669	100	0.26691					
Crucigenia		92	0	4465	30	0.13394					
Elakatothrix		1	0	49	45	0.00218					
Eremosphaera		0	2	4	700	0.00272					
Golenkinia		4	0	194	400	0.07765					
Lagerheimia		8	0	388	500	0.19412					
Monoraphidium		0	1	2	900	0.00175					
Oocystis		59	0	2863	300	0.85897					
Pediastrum		4	0	194	60	0.01165					
Planctonema		708	0	34359	800	27.48714					
Scenedesmus		6	0	291	250	0.07279					
Schroederia		1	0	49	550	0.02669					
Staurastrum		3	0	146	2000	0.29118					
Tetraedron		2	0	97	150	0.01456					
Tetrastrum		12	0	582	40	0.02329					
CYANOPHYCEAE											
Aphanizomenonaceae family - straight	Р	236	0	11453	67	0.76735					
Cuspidothrix cf. issatschenkoi		25	0	1213	57	0.06915					

ANALYST: Adam Deliyiannis **Biologist**

REVIEWED: Kirsten Mudie (signatory)

Biologist

DATE: 02/03/2021

METHOD NO.: MB010/MW024VCA



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COMMENTS: + A highly diverse community of algal taxa was observed. The presence of toxigenic taxa should be noted. Curret levels are likely to impair water quality.

Sedgewick-Rafter Vol.(ml) 1.0303 Concentration 1 : 1 Magnification Fields	Toxigenic (T) or Potentially toxic (P)	- 200x 20	- 100x 500	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)	
Limnolyngbya (Planktolyngbya circumcreta)		1120	0	54353	4.9	0.26633	
Planktolyngbya		5980	0	290207	3.8	1.10279	
Raphidiopsis raciborskii	Т	210	0	10191	42	0.42803	
Synechococcales small (iauv <20)		8080	0	392119	5.25	2.05862	
DINOPHYCEAE							
Dinoflagellates		1	0	49	20000	0.97059	
Peridiniales		1	0	49	5000	0.24265	
EUGLENOPHYCEAE							
Euglena		1	0	49	7000	0.33971	
OTHER PHYTOPLANKTON							
Other small flagellates		4	0	194	80	0.01553	
TOTAL BGA						4.69227	
TOTAL TOXIGENIC BGA TOTAL POTENTIALLY TOXIC BGA		10191 11453				0.42803 0.76735	
TOTAL ALGAE		807755				35.97826	

⁺ 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 REVIEWED: Kirsten Mudie (signatory) DATE: 02/03/2021
Biologist Biologist

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