

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. :	7007882 21-25384			
LOCALITY:	EM2108900_013			
SITE:	DS Tauwitchere			
SAMPLE:	Surface			
DATE SAMPLED :	12/05/2021			
DATE ANALYSED :	20/05/2021			
SAMPLED BY:	Sample analysed as received			

COMMENTS: + A diverse algal community was observed with excessive levels of low biovolume BGA present. Potentially toxic BGA were noted. Water quality is likely to be impaired and a health risk may be posed.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0046 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			16	0	796	200	0.15927
Chaetoceros			1	0	50	200	0.00995
Licmophora			1	0	50	850	0.04231
Nitzschia			5	0	249	400	0.09954
Pennales			10	0	498	300	0.14931
CHLOROPHYCEAE							
Ankistrodesmus			20	0	995	132	0.13140
Botryococcus			0	65	129	98	0.01268
Chlamydomonads			1	0	50	250	0.01244
Chlorococcoids (<10um)			16	0	796	60	0.04778
Colonial green (cells)			32	0	1593	100	0.15927
Crucigenia			40	0	1991	30	0.05973
Didymocystis			4	0	199	41	0.00816
Eremosphaera			0	30	60	700	0.04181
Hyaloraphidium			1	0	50	750	0.03733
Lagerheimia			8	0	398	500	0.19908
Oocystis			38	0	1891	300	0.56739
Pediastrum			12	0	597	60	0.03584
Planctonema			200	0	9954	800	7.96337
Scenedesmus			32	0	1593	250	0.39817
Selenastrum			2	0	100	250	0.02489
Tetrastrum			8	0	398	40	0.01593
CYANOPHYCEAE							
Aphanizomenonaceae family - straight		Р	564	0	28071	67	1.88075
Limnolyngbya (Planktolyngbya circumcr	reta)		2120	0	105515	4.9	0.51702

ANALYST: Kirsten Mudie (signatory)
Biologist

REVIEWED: Adam Deliyiannis
Biologist

Biologist

DATE: 21/05/2021



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Planktolyngbya			4360	0	217002	3.8	0.82461
Pseudanabaena			41	0	2041	12.5	0.02551
Raphidiopsis		Р	126	0	6271	59	0.37000
Synechococcales small (iauv <20)			8320	0	414095	5.25	2.17400
EUGLENOPHYCEAE							
Euglena			2	0	100	7000	0.69679
OTHER PHYTOPLANKTON							
Other filaments (cells)			0	95	189	400	0.07565
Other small flagellates			1	0	50	80	0.00398
TOTAL BGA		772995				5.79188	
TOTAL TOXIGENIC BGA		0				0.00000	
TOTAL POTENTIALLY TOXIC BGA		34342				2.25075	
TOTAL ALGAE				795771		16.74394	

⁺ 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: 21/05/2021
Biologist Biologist

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