

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. :	7171289 21-46438					
LOCALITY:	EM2119079-003					
SITE:	DS Tauwitchere					
SAMPLE:	Surface					
DATE SAMPLED :	23/09/2021					
DATE ANALYSED :	27/09/2021					
SAMPLED BY:	Sample analysed as received					

COMMENTS: + A diverse algal community was observed with low biovolume BGA present in excessive levels. Water quality is likely to be impaired.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0722 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	746	200	0.14923		
Pennales			0	5	9	300	0.00280		
CHLOROPHYCEAE									
Ankistrodesmus			2	0	93	132	0.01231		
Ankyra			1	0	47	40	0.00187		
Chlamydomonads			1	0	47	250	0.01166		
Chlorococcoids (<10um)			256	0	11938	60	0.71628		
Closterium			1	0	47	4130	0.19259		
Colonial green (cells)			18	0	839	100	0.08394		
Crucigenia			688	0	32084	30	0.96251		
Dictyosphaerium			36	0	1679	20	0.03358		
Didymocystis			20	0	933	41	0.03824		
Dimorphococcus			8	0	373	20	0.00746		
Elakatothrix			0	2	4	45	0.00017		
Eremosphaera			2	0	93	700	0.06529		
Golenkinia			1	0	47	400	0.01865		
Lagerheimia			16	0	746	500	0.37306		
Monoraphidium			20	0	933	900	0.83940		
Nephrocytium			4	0	187	200	0.03731		
Oocystis			392	0	18280	300	5.48405		
Pediastrum			12	0	560	60	0.03358		
Planctonema			336	0	15669	800	12.53497		
Scenedesmus			72	0	3358	250	0.83940		
Staurastrum			1	0	47	2000	0.09327		
Tetrastrum			24	0	1119	40	0.04477		

ANALYST: Kirsten Mudie (signatory)
Biologist

METHOD NO.: MB010/MW024VCA

REVIEWED: Adam Deliyiannis
Biologist

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DATE: 28/09/2021



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CHRYSOPHYCEAE							
Other Chrysophyceae		5	0	233	350	0.08161	
CRYPTOPHYCEAE							
Cryptomonads		1	0	47	320	0.01492	
CYANOPHYCEAE							
Aphanizomenonaceae family - straight	Р	0	12	22	67	0.00150	
Limnolyngbya (Planktolyngbya circumcreta)		2440	0	113785	4.9	0.55755	
Planktolyngbya		1320	0	61556	3.8	0.23391	
Pseudanabaena		10	0	466	12.5	0.00583	
Romeria		4	0	187	31	0.00578	
Synechococcales small (iauv <20)		36200	0	1688118	5.25	8.86262	
TOTAL BGA		1864134				9.66719	
TOTAL TOXIGENIC BGA		0				0.00000	
TOTAL POTENTIALLY TOXIC BGA		22				0.00150	
TOTAL ALGAE		1954292				32.34008	

⁺ 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: 28/09/2021
Biologist Biologist

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