

22 Dalmore Drive Scoresby 3179 Tel. 03 8756 8183 Fax. 03 9763 1862



DATE: 31/08/2020



ALGAL REPORT

CLIENT:	ALS					
LABORATORY NO./BATCH NO. :	6681717 20-40763					
LOCALITY:	EM2014780_013					
SITE:	DS Tauwitchere					
SAMPLE:	Surface					
DATE SAMPLED :	26/08/2020					
DATE ANALYSED :	31/08/2020					
SAMPLED BY:	Sample analysed as received					

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

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0018 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									
Aulacoseira			0	2	4	2860	0.01142		
Centrales			56	0	2795	200	0.55899		
CHLOROPHYCEAE									
Ankistrodesmoideae			20	0	998	132	0.13176		
Botryococcus			0	120	240	98	0.02348		
Chlamydomonads			4	0	200	250	0.04991		
Chlorococcoids (<10um)			195	0	9732	60	0.58395		
Chlorolobion			12	0	599	70	0.04192		
Closterium			0	60	120	4130	0.49471		
Colonial green (cells)			8	0	399	100	0.03993		
Crucigenia			256	0	12777	30	0.38331		
Dictyosphaerium			56	0	2795	20	0.05590		
Didymocystis			8	0	399	41	0.01637		
Dimorphococcus			4	0	200	20	0.00399		
Elakatothrix			3	0	150	45	0.00674		
Eremosphaera			0	40	80	700	0.05590		
Hyaloraphidium			24	0	1198	750	0.89838		
Lagerheimia			7	0	349	500	0.17469		
Nephrocytium			2	0	100	200	0.01996		
Oocystis			245	0	12228	300	3.66840		
Pediastrum			0	4	8	60	0.00048		
Planctonema			103	0	5141	800	4.11260		
Scenedesmus			36	0	1797	250	0.44919		
Selenastrum			8	0	399	250	0.09982		
Staurastrum			0	5	10	2000	0.01996		

ANALYST: Kirsten Mudie (signatory)
Biologist

REVIEWED: Adam Deliyiannis
Biologist

METHOD NO.: MB010/MW024CV Page 1 of 2



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

Sedgewick-Rafter Vol.(ml) 1.0018 Concentration 1 : 4 Magnification Fields	(T)	- 200x 20	- 100x 500	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)	
Tetraedron		2	0	100	150	0.01497	
Tetrastrum		4	0	200	40	0.00799	
CHRYSOPHYCEAE							
Other Chrysophyceae		1	0	50	350	0.01747	
CRYPTOPHYCEAE							
Cryptomonads		44	0	2196	320	0.70274	
CYANOPHYCEAE							
Aphanizomenonaceae family - straight	Р	0	19	38	67	0.00254	
Leptolyngbya		25	0	1248	2.36	0.00294	
Limnolyngbya (Planktolyngbya circumcreta)		2830	0	141246	4.9	0.69210	
Planktolyngbya		1020	0	50908	3.8	0.19345	
Synechococcales small (iauv <20)		6640	0	331403	5.25	1.73987	
DINOPHYCEAE							
Gymnodiniales (small)		1	0	50	500	0.02496	
EUGLENOPHYCEAE							
Eutreptia		0	4	8	1000	0.00799	
TOTAL BGA		524843				2.63091	
TOTAL TOXIGENIC BGA		0				0.00000	
TOTAL POTENTIALLY TOXIC BGA		38				0.00254	
TOTAL ALGAE		580165				15.30878	

⁺ 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.

ANALYST: Kirsten Mudie (signatory) REVIEWED: Adam Deliyiannis DATE: 31/08/2020
Biologist Biologist

METHOD NO.: MB010/MW024CV Page 2 of 2

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.