

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. :	7241916 21-55807			
LOCALITY:	EM2123012-017			
SITE:	DS Tauwitchere			
SAMPLE:	Surface			
DATE SAMPLED :	16/11/2021			
DATE ANALYSED :	22/11/2021			
SAMPLED BY:	Sample analysed as received			

COMMENTS: + A highly diverse range of algal taxa was osberved. Current excessive levels of low biovolume BGA Synechococcales will impact water quality.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0303 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			2	0	97	200	0.01941
Pennales			2	0	97	300	0.02912
Pennales (small <20um)			3	0	146	251	0.03654
CHLOROPHYCEAE							
Ankistrodesmoideae			19	0	922	132	0.12171
Chlorococcoids (<10um)			41	0	1990	60	0.11938
Crucigenia			44	0	2135	30	0.06406
Dictyosphaerium			8	0	388	20	0.00776
Didymocystis			8	0	388	41	0.01592
Lagerheimia			11	0	534	500	0.26691
Monoraphidium			3	0	146	900	0.13103
Oocystis			41	0	1990	300	0.59691
Pediastrum			5	0	243	60	0.01456
Planctonema			272	0	13200	800	10.56003
Scenedesmus			18	0	874	250	0.21838
Staurastrum			1	0	49	2000	0.09706
Tetraedron			1	0	49	150	0.00728
Tetrastrum			4	0	194	40	0.00776
CYANOPHYCEAE							
Aphanizomenonaceae family - straight		Р	0	43	83	67	0.00559
Limnolyngbya (Planktolyngbya circumcreta	a)		2760	0	133942	4.9	0.65631
Planktolyngbya			1950	0	94633	3.8	0.35960
Synechococcales small (iauv <20)			5000	0	242648	5.25	1.27390

ANALYST: Adam Deliyiannis (signatory) REVIEWED: Kirsten Mudie (signatory) DATE: 22/11/2021
Biologist Biologist

METHOD NO.: MB010/MW024VCA Page 1 of 2



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Fields		*	20	500	(cells/mL)	(um3)	(mm3/L)

TOTAL BGA	471306	2.29541
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	83	0.00559
TOTAL ALGAE	494748	14.60925

⁺ 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.

ANALYST: Adam Deliyiannis (signatory) REVIEWED: Kirsten Mudie (signatory) DATE: 22/11/2021
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METHOD NO.: MB010/MW024VCA Page 2 of 2

^{*} 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.