

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. :	7136724 21-41798
LOCALITY:	EM2116912-002
SITE:	US Tauwitchere
SAMPLE:	Surface
DATE SAMPLED :	25/08/2021
DATE ANALYSED :	27/08/2021
SAMPLED BY:	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed. Elevated levels of debris/sediment was observed. Excessive levels of low biovolume BGA Synechococcales are likely to impact water quality.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0744 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							
Fragilariaceae			41	0	1908	500	0.95402
Pennales (small <20um)			21	0	977	251	0.24530
CHLOROPHYCEAE							
Ankistrodesmoideae			6	0	279	132	0.03686
Botryococcus			0	385	717	98	0.07023
Chlamydomonads			2	0	93	250	0.02327
Chlorococcoids (<10um)			58	0	2699	60	0.16195
Closterium			0	7	13	4130	0.05382
Crucigenia			280	0	13031	30	0.39092
Dictyosphaerium			28	0	1303	20	0.02606
Didymocystis			2	0	93	41	0.00382
Eremosphaera			3	0	140	700	0.09773
Lagerheimia			8	0	372	500	0.18615
Monoraphidium			3	0	140	900	0.12565
Oocystis			133	0	6190	300	1.85685
Pediastrum			24	0	1117	60	0.06701
Planctonema			463	0	21547	800	17.23753
Scenedesmus			18	0	838	250	0.20942
Staurastrum			0	1	2	2000	0.00372
Tetraedron			0	2	4	150	0.00056
CRYPTOPHYCEAE		<u>. </u>					
Cryptomonads			2	0	93	320	0.02978
CYANOPHYCEAE				•	•		
Limnolyngbya			6500	0	302494	4.9	1.48222
Planktolyngbya			8400	0	390916	3.8	1.48548

ANALYST: Karen Simonsen (signatory) REVIE Biologist

REVIEWED: Adam Deliyiannis
Biologist

METHOD NO.: MB010/MW024VCA

DATE: 27/08/2021



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Synechococcales small (iauv <20)			15200	0	707372	5.25	3.71370

1400782 6.6	TOTAL BGA
0 0.0	TOTAL TOXIGENIC BGA
0 0.0	TOTAL POTENTIALLY TOXIC BGA
1452338 28.4	TOTAL ALGAE

⁺ 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: Karen Simonsen (signatory) REVIEWED: Adam Deliyiannis DATE: 27/08/2021
Biologist Biologist

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.