

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. :	7484448 22-53362			
LOCALITY:	EM2212385-001			
SITE:	US Tauwitchere			
SAMPLE:	Surface			
DATE SAMPLED :	29/06/2022			
DATE ANALYSED :	5/07/2022			
SAMPLED BY:	Sample analysed as received			

COMMENTS: + A highly diverse algal community was observed with current levels that may mildly influence water quality.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0099 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			4	0	198	2860	0.56639
Centrales			32	0	1584	200	0.31686
Pennales			8	0	396	300	0.11882
Pennales (small <20um)			12	0	594	251	0.14912
CHLOROPHYCEAE							
Botryococcus			0	120	238	98	0.02329
Chlorococcoids (<10um)			464	0	22973	60	1.37835
Closterium			0	1	2	4130	0.00818
Colonial green (cells)			90	0	4456	100	0.44559
Crucigenia			64	0	3169	30	0.09506
Dictyosphaerium			184	0	9110	20	0.18220
Didymocystis			32	0	1584	41	0.06496
Dimorphococcus			8	0	396	20	0.00792
Filamentous Green			88	0	4357	386	1.68175
Lagerheimia			24	0	1188	500	0.59412
Monoraphidium (small)			68	0	3367	16	0.05387
Monoraphidium (large)			4	0	198	400	0.07922
Oocystis			124	0	6139	300	1.84177
Pediastrum			8	0	396	60	0.02376
Planctonema			69	0	3416	800	2.73294
Scenedesmus			76	0	3763	250	0.94069
Schroederia			0	2	4	550	0.00218
Staurastrum			1	0	50	2000	0.09902
Tetraedron			20	0	990	150	0.14853
Tetrastrum			96	0	4753	40	0.19012

ANALYST: Kirsten Mudie (signatory) **Biologist**

REVIEWED: Thao Nguyen (signatory)

Biologist

DATE: **07/07/2022**

METHOD NO.: MB010/MW024VCA



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CRYPTOPHYCEAE							
Cryptomonads			4	0	198	320	0.06337
CYANOPHYCEAE							
Limnolyngbya			612	0	30300	4.9	0.14847
Planktolyngbya			672	0	33271	3.8	0.12643
Synechococcales small (iauv <20)			560	0	27726	5.25	0.14556
TOTAL BOA					04007		0.40040

TOTAL BGA	91297	0.42046
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	164816	12.22854

⁺ 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: Thao Nguyen (signatory) DATE: 07/07/2022

Biologist Biologist

METHOD NO.: MB010/MW024VCA Page 2 of 2