

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.:	7684055 22-64963					
LOCALITY:	EM2216764-002					
SITE:	DS Tauwitchere					
SAMPLE:	Surface					
DATE SAMPLED :	30/08/2022					
DATE ANALYSED :	7/09/2022					
SAMPLED BY:	Sample analysed as received					

COMMENTS: + A highly diverse algal community was observed, but current combined levels are unlikely to impact water quality.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0204 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			222	0	10878	2860	31.11133
Centrales - (5-10um)			3	0	147	80	0.01176
Naviculales			1	0	49	1400	0.06860
Nitzschia			2	0	98	400	0.03920
Pennales (small <20um)			35	0	1715	251	0.43047
CHLOROPHYCEAE							
Actinastrum			2	0	98	60	0.00588
Botryococcus			0	30	59	98	0.00576
Chlamydomonads			10	0	490	250	0.12250
Chlorococcoids (<10um)			29	0	1421	60	0.08526
Closterium			1	0	49	4130	0.20237
Crucigenia			92	0	4508	30	0.13524
Didymocystis			4	0	196	41	0.00804
Filamentous Green			2	0	98	386	0.03783
Monoraphidium (small)			35	0	1715	16	0.02744
Monoraphidium (large)			0	2	4	400	0.00157
Oocystis (small)			23	0	1127	100	0.11270
Planctonema			69	0	3381	800	2.70482
Scenedesmus			14	0	686	250	0.17150
Tetrastrum			8	0	392	40	0.01568
CRYPTOPHYCEAE							
Cryptomonads			19	0	931	320	0.29792
CYANOPHYCEAE							
Leptolyngbya			21	0	1029	2.36	0.00243
Limnolyngbya			156	0	7644	4.9	0.03746

ANALYST: Karen Simonsen (signatory) **Biologist**

REVIEWED: Lauren Minett (signatory)

Biologist

DATE: 08/09/2022

METHOD NO.: MB010/MW024VCA



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Limnothrix/Geitlerinema/Anagnostidinema		Р	6	0	294	17.5	0.00515
Planktolyngbya			91	0	4459	3.8	0.01694
Synechococcales small (iauv <20)			63	0	3087	5.25	0.01621
EUGLENOPHYCEAE							
Trachelomonas			2	0	98	3000	0.29400
TOTAL BGA		16513				0.07818	
TOTAL TOXIGENIC BGA		0				0.00000	
TOTAL POTENTIALLY TOXIC BGA		294				0.00515	
TOTAL ALGAE			44653				35.96806

⁺ 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: Karen Simonsen (signatory) REVIEWED: Lauren Minett (signatory) DATE: 08/09/2022

Biologist Biologist

METHOD NO.: MB010/MW024VCA Page 2 of 2