

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.:	7684054 22-64963					
LOCALITY:	EM2216764-001					
SITE:	US 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	1.0172 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			239	0	11748	2860	33.59910
Centrales			3	0	147	200	0.02949
Chaetoceros			0	4	8	200	0.00157
Pennales			84	0	4129	300	1.23869
CHLOROPHYCEAE							
Chlamydomonads			13	0	639	250	0.15975
Chlorococcoids (<10um)			36	0	1770	60	0.10617
Chlorogonium			1	0	49	50	0.00246
Closterium			0	2	4	4130	0.01624
Crucigenia			132	0	6488	30	0.19465
Didymocystis			8	0	393	41	0.01612
Filamentous Green			2	0	98	386	0.03795
Monoraphidium (small)			57	0	2802	16	0.04483
Monoraphidium (large)			1	0	49	400	0.01966
Oocystis			10	0	492	300	0.14746
Pediastrum			10	0	492	60	0.02949
Planctonema			57	0	2802	800	2.24145
Scenedesmus			58	0	2851	250	0.71274
Staurastrum			0	2	4	2000	0.00786
Tetrastrum			4	0	197	40	0.00786
CRYPTOPHYCEAE							
Cryptomonads			22	0	1081	320	0.34605
CYANOPHYCEAE		1					
Aphanizomenonaceae family - straight		Р	7	0	344	67	0.02305
Limnolyngbya			194	0	9536	4.9	0.04673

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

REVIEWED: Lauren Minett (signatory)

Biologist

DATE: 08/09/2022

METHOD NO.: MB010/MW024VCA



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39.26088

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

Sedgewick-Rafter Vol.(ml) 1.01 Concentration 1: Magnification Fields	/T\	- 200x 20	- 100x 500	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)	
Planktolyngbya		147	0	7226	3.8	0.02746	
Pseudanabaena		56	0	2753	12.5	0.03441	
Synechococcales small (iauv <20)		63	0	3097	5.25	0.01626	
DINOPHYCEAE							
Prorocentrum		0	1	2	3000	0.00590	
EUGLENOPHYCEAE							
Trachelomonas		1	0	49	3000	0.14746	
TOTAL BGA		22956				0.14790	
TOTAL TOXIGENIC BGA		0				0.00000	
TOTAL POTENTIALLY TOXIC BGA		344				0.02305	

<sup>+</sup> The comments are discretionary and are for the purpose of helping to understand WQ implications. The comments are not accredited by NATA.

**TOTAL ALGAE** 

The biovolume values reported are those derived from documented information, including scientific literature. These are average values and not those measured on individual samples.

59250

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

METHOD NO.: MB010/MW024VCA 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.

<sup>\*</sup> 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.