

22 Dalmore Drive Scoresby 3179 Tel. 03 8756 8183 Fax. 03 9763 1862



DATE: **07/07/2022**



ALGAL REPORT

CLIENT:	Australian Laboratory Services Pty Ltd SA				
LABORATORY NO./BATCH NO. :	7484459 22-53362				
LOCALITY:	EM2212385-012				
SITE:	Tilley Watercourse				
SAMPLE:	Surface				
DATE SAMPLED :	30/06/2022				
DATE ANALYSED :	5/07/2022				
SAMPLED BY:	Sample analysed as received				

COMMENTS: + A diverse algal community was observed with current levels unlikely to influence water quality.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0235 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			0	1	2	200	0.00039
Centrales - (5-10um)			2	0	98	80	0.00782
Pennales			0	1	2	300	0.00059
CHLOROPHYCEAE							
Botryococcus			0	80	156	98	0.01532
Carteria			0	1	2	300	0.00059
Chlamydomonads			1	0	49	250	0.01221
Chlorococcoids (<10um)			2	0	98	60	0.00586
Monoraphidium (small)			1	0	49	16	0.00078
Oocystis			1	0	49	300	0.01466
Scenedesmus			0	8	16	250	0.00391
CHRYSOPHYCEAE							
Other Chrysophyceae			4	0	195	350	0.06839
CRYPTOPHYCEAE							
Cryptomonads			0	1	2	320	0.00063
CYANOPHYCEAE							
Pseudanabaena			0	24	47	12.5	0.00059
Snowella			0	16	31	9	0.00028
Synechococcales small (iauv <20)			20	0	977	5.25	0.00513
DINOPHYCEAE							
Gymnodiniales			0	1	2	2000	0.00391
Gymnodiniales (small)			0	3	6	500	0.00293
OTHER PHYTOPLANKTON				-			
Other small flagellates	<u> </u>		6	0	293	80	0.02345

ANALYST: Kirsten Mudie (signatory)

Biologist

REVIEWED: Louise Ungemach (signatory)

Biologist

METHOD NO.: MB010/MW024VCA Page 1 of 2



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TOTAL BGA	1055	0.00600
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	2074	0.16742

⁺ 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: Kirsten Mudie (signatory) REVIEWED: Louise Ungemach (signatory) DATE: 07/07/2022

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.