

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. :	7328750 22-06265				
LOCALITY:	EM2201088-021				
SITE:	Tilley Watercourse				
SAMPLE:	Surface				
DATE SAMPLED :	20/01/2022				
DATE ANALYSED :	2/02/2022				
SAMPLED BY:	Sample analysed as received				

COMMENTS: + Current algal levels are unlikely to influence water quality.

Sedgewick-Rafter Vol.(ml) 1.03 Concentration 1 Magnification Fields	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		1	0	48	200	0.00968
Centrales - (5-10um)		2	0	97	80	0.00775
Naviculales		1	0	48	1400	0.06778
Pennales		4	0	194	300	0.05810
Pennales (small <20um)		1	0	48	251	0.01215
CHLOROPHYCEAE			1	1		
Ankistrodesmoideae		1	0	48	132	0.00639
Botryococcus		0	20	39	98	0.00380
Chlorococcoids (<10um)		10	0	484	60	0.02905
Crucigenia		16	0	775	30	0.02324
Monoraphidium (small)		10	0	484	16	0.00775
Oocystis		8	0	387	300	0.11620
CYANOPHYCEAE						
Limnothrix/Geitlerinema/Anagnostidinema	Р	0	20	39	17.5	0.00068
Synechococcales small (iauv <20)		58	0	2808	5.25	0.01474
DINOPHYCEAE						
Gymnodiniales (small)		1	0	48	500	0.02421
Peridiniales		1	0	48	5000	0.24208
OTHER PHYTOPLANKTON						
Other small flagellates		2	0	97	80	0.00775
TOTAL BGA		2847				0.01542
TOTAL TOXIGENIC BGA		0				0.00000
TOTAL POTENTIALLY TOXIC BGA		39				0.00068
TOTAL ALGAE		5692				0.63135

ANALYST: Adam Deliyiannis (signatory) REVIEWED: Kirsten Mudie (signatory) DATE: 02/02/2022
Biologist Biologist

METHOD NO.: MB010/MW024VCA Page 1 of 2



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COMMENTS: + Current algal levels are unlikely to influence water quality.

Sedgewick-Rafter Vol.(ml) Concentration	1.0327 1 : 1	Toxigenic (T) or Potentially			Total Cell	Individual Algal Unit	Total Biovolume
Magnification		toxic (P)	- 200x	- 100x	Count (cells/mL)	Volume	(mm3/L)
Fields		*	20	500	(cells/iliL)	(um3)	(111113/2)

⁺ 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

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: Adam Deliyiannis (signatory) REVIEWED: Kirsten Mudie (signatory) DATE: **02/02/2022 Biologist** Biologist

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^{*} 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.