

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.:	7241920 21-55807
LOCALITY:	EM2123012-021
SITE:	Tilley Swamp Drain Watercourse
SAMPLE:	Surface
DATE SAMPLED :	16/11/2021
DATE ANALYSED :	23/11/2021
SAMPLED BY:	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed. Levels of low biovolume BGA Synechococcales will impact water quality.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0327 Toxiger (T) or Potentia toxic (I	ally	- 100x 500	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)		
BACILLARIOPHYCEAE								
Entomoneis		0	2	4	1000	0.00387		
Pennales		1	0	48	300	0.01453		
CHLOROPHYCEAE								
Ankistrodesmoideae		15	0	726	132	0.09587		
Botryococcus		0	200	387	98	0.03796		
Chlorococcoids (<10um)		67	0	3244	60	0.19464		
Colonial green (cells)		16	0	775	100	0.07747		
Filamentous Green		0	33	64	386	0.02467		
Lagerheimia		1	0	48	500	0.02421		
Oocystis		35	0	1695	300	0.50838		
CYANOPHYCEAE		-	1	1				
Planktolyngbya		1720	0	83277	3.8	0.31645		
Synechococcales small (iauv <20)		4980	0	241116	5.25	1.26586		
DINOPHYCEAE	1		-	1				
Gymnodiniales		1	0	48	2000	0.09683		
Peridiniales		2	0	97	5000	0.48417		
OTHER PHYTOPLANKTON	I	1	1	1				
Other small flagellates		118	0	5713	80	0.45705		
TOTAL BGA		iA	324393					
TOTAL TOXIGENIC BGA		A	0					
TOTAL POTENTIALLY TOXIC BGA		Α	0					
TOTAL ALGAE		E	337242					

ANALYST: Adam Deliyiannis (signatory) REVIEWED: Kirsten Mudie (signatory) DATE: 23/11/2021
Biologist Biologist

METHOD NO.: MB010/MW024VCA Page 1 of 2



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

⁺ 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: Adam Deliyiannis (signatory) REVIEWED: Kirsten Mudie (signatory) DATE: 23/11/2021
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.