

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. :	6754219 20-50457				
LOCALITY:	EM2018692-018				
SITE:	Tilley Swamp Drain U/S Morella				
SAMPLE:	Surface				
DATE SAMPLED :	21/10/2020				
DATE ANALYSED :	28/10/2020				
SAMPLED BY:	Sample analysed as received				

COMMENTS: + A diverse and abundant algal community was observed. Current overall levels are sufficient to influence water quality.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0099 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							
Amphora			4	0	198	500	0.09902
Campylodiscus			0	2	4	4000	0.01584
Centrales			6	0	297	200	0.05941
Chaetoceros			0	4	8	200	0.00158
Gomphonema			4	0	198	850	0.16833
Naviculales			3	0	149	1400	0.20794
Nitzschia			3	0	149	400	0.05941
Pennales			1	0	50	300	0.01485
Pennales (small <20um)			17	0	842	251	0.21126
Pleurosigma			0	2	4	2000	0.00792
Tryblionella			0	5	10	1150	0.01139
CHLOROPHYCEAE		1		I			
Ankistrodesmoideae			30	0	1485	132	0.19606
Chlamydomonads			5	0	248	250	0.06189
Chlorococcoids (<10um)			510	0	25250	60	1.51500
Colonial green (cells)			25	0	1238	100	0.12377
Lagerheimia			5	0	248	500	0.12377
Oocystis			29	0	1436	300	0.43074
Scenedesmus			4	0	198	250	0.04951
Selenastrum			31	0	1535	250	0.38370
CRYPTOPHYCEAE				•			
Cryptomonads			5	0	248	320	0.07922
CYANOPHYCEAE							
Leptolyngbya			56	0	2773	2.36	0.00654
Planktolyngbya			10	0	495	3.8	0.00188

ANALYST: Karen Simonsen (signatory) REVIEWED: Adam Deliyiannis DATE: 28/10/2020
Biologist Biologist

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Pseudanabaena			4	0	198	12.5	0.00248
Synechococcales small (iauv <20)			1560	0	77235	5.25	0.40549
DINOPHYCEAE							
Gymnodiniales (small)			0	4	8	500	0.00396
Peridiniales			0	1	2	5000	0.00990
EUGLENOPHYCEAE							
Euglena			0	2	4	7000	0.02773
TOTAL BGA		80701				0.41639	
TOTAL TOXIGENIC BGA		0				0.00000	
TOTAL POTENTIALLY TOXIC BGA		0				0.00000	
TOTAL ALGAE		114510				4.27860	

⁺ 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.

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