

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



DATE: 09/02/2021



ALGAL REPORT

CLIENT:	Australian Laboratory Services Pty Ltd SA			
LABORATORY NO./BATCH NO.:	6874001 21-07778			
LOCALITY:	EM2101680_019			
SITE:	Tilley Swamp Drain			
SAMPLE:	Surface			
DATE SAMPLED :	3/02/2021			
DATE ANALYSED :	8/02/2021			
SAMPLED BY:	Sample analysed as received			

COMMENTS: + A moderately diverse algal community was observed with diatoms most numerous. Water quality may be mildly impacted.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0168 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							
Chaetoceros			0	27	53	200	0.01062
Fragilariaceae			37	0	1819	500	0.90972
Naviculales			2	0	98	1400	0.13769
Pennales			3	0	148	300	0.04426
Pennales (small <20um)			3	0	148	251	0.03703
CHLOROPHYCEAE							
Ankistrodesmus			3	0	148	132	0.01947
Chlamydomonads			2	0	98	250	0.02459
Chlorococcoids (<10um)			23	0	1131	60	0.06786
Oocystis			2	0	98	300	0.02950
Selenastrum			18	0	885	250	0.22128
CHRYSOPHYCEAE							
Other Chrysophyceae			2	0	98	350	0.03442
CRYPTOPHYCEAE							
Cryptomonads			1	0	49	320	0.01574
CYANOPHYCEAE							
Planktolyngbya			9	0	443	3.8	0.00168
Pseudanabaena			0	48	94	12.5	0.00118
Synechococcales small (iauv <20)			153	0	7524	5.25	0.03950
Synechococcales large (iauv 20-86)			0	20	39	54	0.00212
EUGLENOPHYCEAE							
Lepocinclis			0	1	2	29307	0.05765
OTHER PHYTOPLANKTON							
Other small flagellates			11	0	541	80	0.04327

ANALYST: Kirsten Mudie (signatory) REVIEWED: Adam Deliyiannis
Biologist Biologist

METHOD NO.: MB010/MW024VCA Page 1 of 2



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Magnification		toxic (P)	- 200x	- 100x	Count (cells/mL)	Volume	Biovolume (mm3/L)	
Fields		*	20	500	(cells/lilL)	(um3)	(IIIII3/L)	

TOTAL BGA	8100	0.04449
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	13416	1.69758

⁺ 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: Adam Deliyiannis DATE: 09/02/2021
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.