

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. :	6781628 20-54272				
LOCALITY:	Em020558_019				
SITE:	Tilley Swamp Drain				
SAMPLE:	Surface				
DATE SAMPLED :	18/11/2020				
DATE ANALYSED :	23/11/2020				
SAMPLED BY:	Sample analysed as received				

COMMENTS: + A diverse algal community was observed with greens and small BGA numerous. Water quality may be impaired.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0272 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			0	2	4	500	0.00195
Centrales			4	0	195	200	0.03894
Cocconeis			0	1	2	450	0.00088
Naviculales			0	3	6	1400	0.00818
Nitzschia			0	1	2	400	0.00078
Pennales			1	0	49	300	0.01460
Pennales (small <20um)			1	0	49	251	0.01222
CHLOROPHYCEAE							
Ankistrodesmoideae			25	0	1217	132	0.16063
Ankistrodesmus			6	0	292	132	0.03855
Chlorococcoids (<10um)			65	0	3164	60	0.18984
Colonial green (cells)			290	0	14116	100	1.41160
Lagerheimia			610	0	29692	500	14.84618
Oocystis			155	0	7545	300	2.26343
Selenastrum			335	0	16306	250	4.07662
CHRYSOPHYCEAE							
Other Chrysophyceae			1	0	49	350	0.01704
CRYPTOPHYCEAE							
Cryptomonads			1	0	49	320	0.01558
CYANOPHYCEAE							
Synechococcales small (iauv <20)			1985	0	96622	5.25	0.50726
OTHER PHYTOPLANKTON							
Other small flagellates			1	0	49	80	0.00389

ANALYST: Kirsten Mudie (signatory)

Biologist

REVIEWED: Adam Deliyiannis
Biologist

METHOD NO.: MB010/MW024VCA

Page 1 of 2

DATE: 23/11/2020



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.:	6781628 20-54272			
LOCALITY:	Em020558_019			
SITE:	Tilley Swamp Drain			
SAMPLE:	Surface			
DATE SAMPLED :	18/11/2020			
DATE ANALYSED :	23/11/2020			
SAMPLED BY:	Sample analysed as received			

COMMENTS: + A diverse algal community was observed with greens and small BGA numerous. Water quality may be impaired.

Sedgewick-Rafter Vol.(ml) Concentration	1.0272 1 : 1	Toxigenic (T) or Potentially		Total Cell	Individual Algal Unit	Total	
Magnification		toxic (P)	- 200x	- 100x	Count (cells/mL)	Volume	Biovolume (mm3/L)
Fields		*	20	500	(Cells/IIIL)	(um3)	(111113/L)

TOTAL BGA	96622	0.50726
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	169408	23.60817

⁺ 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: 23/11/2020
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.