

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



DATE: 11/08/2020



ALGAL REPORT

CLIENT:	ALS			
LABORATORY NO./BATCH NO.:	6657127 20-37229			
LOCALITY:	EM2013637_009			
SITE:	Tilley Swamp Drain			
SAMPLE:	Surface			
DATE SAMPLED :	5/08/2020			
DATE ANALYSED :	11/08/2020			
SAMPLED BY:	Sample analysed as received			

COMMENTS: + A diverse algal community was observed with small BGA most numerous. Water quality is unlikely to be impaired.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0138 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							
Centrales			3	0	148	200	0.02959
Chaetoceros			8	0	395	200	0.07891
Cocconeis			0	2	4	450	0.00178
Navicula			2	0	99	1400	0.13809
Pennales			1	0	49	300	0.01480
Pennales (small <20um)			1	0	49	251	0.01238
CHLOROPHYCEAE		<u> </u>					
Ankistrodesmoideae			26	0	1282	132	0.16926
Chlamydomonads			7	0	345	250	0.08631
Chlorococcoids (<10um)			49	0	2417	60	0.14500
Dictyosphaerium			4	0	197	20	0.00395
Oocystis			5	0	247	300	0.07398
Selenastrum			14	0	690	250	0.17262
CHRYSOPHYCEAE							
Other Chrysophyceae			1	0	49	350	0.01726
CRYPTOPHYCEAE							
Cryptomonads			4	0	197	320	0.06313
CYANOPHYCEAE							
Planktolyngbya			65	0	3206	3.8	0.01218
Pseudanabaena			6	0	296	12.5	0.00370
Synechococcales small (iauv <20)			1110	0	54745	5.25	0.28741
DINOPHYCEAE							
Gymnodiniales			1	0	49	2000	0.09864
Gymnodiniales (small)			1	0	49	500	0.02466
OTHER PHYTOPLANKTON				•	•		

ANALYST: Kirsten Mudie (signatory)
Biologist

REVIEWED: Adam Deliyiannis
Biologist

METHOD NO.: MB010/MW024CV Page 1 of 2



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Other small flagellates			10	0	493	80	0.03946
Prasinophytes			2	0	99	100	0.00986

TOTAL BGA	58247	0.30329
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	65105	1.48296

⁺ 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: 11/08/2020 Biologist Biologist

METHOD NO.: MB010/MW024CV 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.