

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.:	6781612 20-54272			
LOCALITY:	EM2020558_003			
SITE:	DS Tauwitchere			
SAMPLE:	Surface			
DATE SAMPLED :	17/11/2020			
DATE ANALYSED :	23/11/2020			
SAMPLED BY:	Sample analysed as received			

**COMMENTS: +** A highly diverse community of algal taxa was observed with excessive levels of small BGA dominating. Water quality is likely to be impacted.

Sedgewick-Rafter Vol.(ml) 1.0  Concentration 1  Magnification  Fields	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						
Pennales		1	0	49	300	0.01475
CHLOROPHYCEAE						
Ankistrodesmoideae		1	0	49	132	0.00649
Chlamydomonads		1	0	49	250	0.01229
Chlorococcoids (<10um)		41	0	2016	60	0.12096
Closterium		0	2	4	4130	0.01625
Colonial green (cells)		28	0	1377	100	0.13767
Crucigenia		56	0	2753	30	0.08260
Elakatothrix		2	0	98	45	0.00443
Lagerheimia		9	0	443	500	0.22126
Micractinium		5	0	246	30	0.00738
Oocystis		85	0	4179	300	1.25381
Planctonema		768	0	37762	800	30.20946
Schroederia		1	0	49	550	0.02704
Tetraedron		1	0	49	150	0.00738
CHRYSOPHYCEAE						
Other Chrysophyceae		1	0	49	350	0.01721
CRYPTOPHYCEAE	'		1			
Cryptomonads		1	0	49	320	0.01573
CYANOPHYCEAE						
Leptolyngbya		60	0	2950	2.36	0.00696
Limnolyngbya (Planktolyngbya circumcreta)		408	0	20061	4.9	0.09830
Planktolyngbya		104	0	5114	3.8	0.01943
Synechococcales small (iauv <20)		3440	0	169142	5.25	0.88799
DINOPHYCEAE	1		1			

ANALYST: Adam Deliyiannis **Biologist** 

REVIEWED: Kirsten Mudie (signatory)

Biologist

DATE: **23/11/2020** 

METHOD NO.: MB010/MW024VCA



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Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0169 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)
Dinoflagellates			0	1	2	20000	0.03934
OTHER PHYTOPLANKTON							
Other small flagellates	•		4	0	197	80	0.01573
Prasinophytes			1	0	49	100	0.00492

TOTAL BGA	197267	1.01269
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	246736	33.22738

<sup>+</sup> 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 REVIEWED: Kirsten Mudie (signatory) DATE: 23/11/2020
Biologist Biologist

METHOD NO.: MB010/MW024VCA Page 2 of 2

<sup>\*</sup> 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.