

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.:	7064967 21-32332			
LOCALITY:	EM2112381-012			
SITE:	US Tauwitchere			
SAMPLE:	Surface			
DATE SAMPLED :	28/06/2021			
DATE ANALYSED :	5/07/2021			
SAMPLED BY:	Sample analysed as received			

**COMMENTS: +** A highly diverse community of algal taxa was observed. Current levels are likely to impact water quality.

, , ,	7)242 Toxigenic (T) or Potentially toxic (P)		- 100x 500	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
BACILLARIOPHYCEAE						
Centrales		7	0	342	200	0.06835
Naviculales		1	0	49	1400	0.06835
Nitzschia		1	0	49	400	0.01953
Pennales		1	0	49	300	0.01465
CHLOROPHYCEAE						
Chlorococcoids (<10um)		35	0	1709	60	0.10252
Closterium		1	0	49	4130	0.20162
Crucigenia		24	0	1172	30	0.03515
Elakatothrix		0	3	6	45	0.00026
Lagerheimia		1	0	49	500	0.02441
Micractinium		13	0	635	30	0.01904
Monoraphidium		6	0	293	900	0.26362
Oocystis		24	0	1172	300	0.35149
Pediastrum		8	0	391	60	0.02343
Planktosphaeria		199	0	9715	120	1.16579
Scenedesmus		18	0	879	250	0.21968
Staurastrum		1	0	49	2000	0.09764
Tetraedron		2	0	98	150	0.01465
Tetrastrum		8	0	391	40	0.01562
CYANOPHYCEAE						
Aphanizomenonaceae family - straight	Р	50	0	2441	67	0.16354
Cuspidothrix cf. issatschenkoi		0	14	27	57	0.00156
Limnolyngbya (Planktolyngbya circumcreta)		2110	0	103007	4.9	0.50474
Planktolyngbya		2450	0	119606	3.8	0.45450
Synechococcales small (iauv <20)		17840	0	870924	5.25	4.57235

ANALYST: Adam Deliyiannis Biologist

REVIEWED: Kirsten Mudie (signatory)

Biologist

DATE: 05/07/2021

METHOD NO.: MB010/MW024VCA



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	*	- 200x 20	- 100x 500	Count (cells/mL)	Algal Unit Volume (um3)	Biovolume (mm3/L)
		7	0	342	80	0.02734
		1	0	49	100	0.00488
_			7			

TOTAL BGA	1096005	5.69669
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	2441	0.16354
TOTAL ALGAE	1113493	8.43470

<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: 05/07/2021
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.