

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. :	6956305 21-18638				
LOCALITY:	EM2106129-002				
SITE:	US Tauwitchere				
SAMPLE:	Surface				
DATE SAMPLED :	8/04/2021				
DATE ANALYSED :	13/04/2021				
SAMPLED BY:	Sample analysed as received				

COMMENTS: + A diversity of algae was present with excessive levels of low biovolume BGA noted. Water quality will be impaired and health concerns may be warranted.

, ,	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		140	0	6863	200	1.37268
Naviculales		1	0	49	1400	0.06863
Nitzschia		3	0	147	400	0.05883
Pennales		16	0	784	300	0.23532
CHLOROPHYCEAE						
Ankistrodesmus		24	0	1177	132	0.15531
Chlorococcoids (<10um)		96	0	4706	60	0.28238
Closterium		3	0	147	4130	0.60741
Colonial green (cells)		48	0	2353	100	0.23532
Crucigenia		64	0	3138	30	0.09413
Dictyosphaerium		104	0	5099	20	0.10197
Didymocystis		2	0	98	41	0.00402
Dimorphococcus		8	0	392	20	0.00784
Eremosphaera		0	25	49	700	0.03432
Golenkinia		1	0	49	400	0.01961
Hyaloraphidium		1	0	49	750	0.03677
Lagerheimia		24	0	1177	500	0.58829
Nephrocytium		2	0	98	200	0.01961
Oocystis		52	0	2549	300	0.76478
Pediastrum		16	0	784	60	0.04706
Planctonema		380	0	18629	800	14.90342
Scenedesmus		84	0	4118	250	1.02951
Selenastrum		40	0	1961	250	0.49024
Staurastrum		0	2	4	2000	0.00784
Tetraedron		3	0	147	150	0.02206

ANALYST: Kirsten Mudie (signatory) **Biologist**

REVIEWED: Lauren Minett (signatory)

Biologist

DATE: 15/04/2021

METHOD NO.: MB010/MW024VCA

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Sedgewick-Rafter Vol.(ml) 1. Concentration Magnification Fields	0199 Toxigenic (T) or Potentially toxic (P)	- 200x 20	- 100x 500	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)	
Tetrastrum		16	0	784	40	0.03138	
CRYPTOPHYCEAE							
Cryptomonads		2	0	98	320	0.03138	
CYANOPHYCEAE							
Aphanizomenonaceae family - straight	Р	163	0	7991	67	0.53540	
Cuspidothrix issatschenkoi		932	0	45691	57	2.60437	
Limnolyngbya		1340	0	65693	4.9	0.32189	
Planktolyngbya		5020	0	246103	3.8	0.93519	
Raphidiopsis	Р	408	0	20002	59	1.18012	
Synechococcales small (iauv <20)		46080	0	2259045	5.25	11.85999	
DINOPHYCEAE							
Dinoflagellates		1	0	49	20000	0.98049	
Gymnodiniales		1	0	49	2000	0.09805	
EUGLENOPHYCEAE							
Euglena		1	0	49	7000	0.34317	
OTHER PHYTOPLANKTON							
Other small flagellates		6	0	294	80	0.02353	
TOTAL BGA				2644525		17.43695	
TOTAL TOXIGENIC BGA		0				0.00000	
TOTAL POTENTIALLY TOXIC BGA		27993				1.71551	
TOTAL ALGAE				2700415		40.13232	

ANALYST: Kirsten Mudie (signatory) REVIEWED: Lauren Minett (signatory) DATE: 15/04/2021
Biologist Biologist

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Sedgewick-Rafter Vol.(ml) Concentration	1.0199 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	(CCIIS/IIIL)	(um3)	(111113/L)

⁺ 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: Lauren Minett (signatory) DATE: 15/04/2021
Biologist Biologist

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^{*} 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.