

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. :	7684060 22-64963			
LOCALITY:	EM2216764-007			
SITE:	Tilley D/S Nth O/L			
SAMPLE:	Surface			
DATE SAMPLED :	31/08/2022			
DATE ANALYSED :	7/09/2022			
SAMPLED BY:	Sample analysed as received			

COMMENTS: + A diverse algal community was observed, but current combined levels are insufficient to influence water quality.

Sedgewick-Rafter Vol.(ml) 1.01 Concentration 1 Magnification Fields	72 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		1	0	49	200	0.00983
Fragilariaceae		2	0	98	500	0.04915
Pennales		0	1	2	300	0.00059
Pennales (small <20um)		2	0	98	251	0.02468
CHLOROPHYCEAE						
Chlamydomonads		4	0	197	250	0.04915
Chlorococcoids (<10um)		23	0	1131	60	0.06783
Monoraphidium (small)		19	0	934	16	0.01494
CRYPTOPHYCEAE						
Cryptomonads		6	0	295	320	0.09438
CYANOPHYCEAE						
Leptolyngbya		24	0	1180	2.36	0.00278
Oscillatoriales (iauv 1-100)	Р	0	54	106	60.8	0.00646
Planktolyngbya		8	0	393	3.8	0.00149
Pseudanabaena		0	23	45	12.5	0.00057
Synechococcales small (iauv <20)		42	0	2064	5.25	0.01084
DINOPHYCEAE						
Peridiniales		0	1	2	5000	0.00983
Prorocentrum		0	4	8	3000	0.02359
OTHER PHYTOPLANKTON						
Other small flagellates		2	0	98	80	0.00786
Prasinophytes		0	6	12	100	0.00118

ANALYST: Karen Simonsen (signatory) REVIEWED: Lauren Minett (signatory) DATE: 09/09/2022

Biologist Biologist

METHOD NO.: MB010/MW024VCA Page 1 of 2



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COMMENTS: + A diverse algal community was observed, but current combined levels are insufficient to influence water quality.

Sedgewick-Rafter Vol.(ml) 1.0172 Concentration 1:1 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)
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TOTAL BGA	3788	0.02214
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	106	0.00646
TOTAL ALGAE	6712	0.37517

⁺ 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: Karen Simonsen (signatory) REVIEWED: Lauren Minett (signatory) DATE: 09/09/2022
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.