

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.:	7684062 22-64963				
LOCALITY:	EM2216764-009				
SITE:	Morella Creek @Gauge				
SAMPLE:	Surface				
DATE SAMPLED :	31/08/2022				
DATE ANALYSED :	7/09/2022				
SAMPLED BY:	Sample analysed as received				

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

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0195 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							
Amphora			1	0	49	500	0.02452
Chaetoceros			2	0	98	200	0.01962
Cocconeis			0	3	6	450	0.00265
Cylindrotheca			0	1	2	500	0.00098
Entomoneis			0	6	12	1000	0.01177
Fragilariaceae			0	15	29	500	0.01471
Naviculales			0	3	6	1400	0.00824
Nitzschia			0	1	2	400	0.00078
Pennales			6	0	294	300	0.08828
Pennales (small <20um)			2	0	98	251	0.02462
CHLOROPHYCEAE				II.			
Chlamydomonads			3	0	147	250	0.03678
Chlorococcoids (<10um)			29	0	1422	60	0.08534
Chlorolobion			2	0	98	70	0.00687
Filamentous Green			0	2	4	386	0.00151
Monoraphidium (small)			56	0	2746	16	0.04394
Oocystis (small)			7	0	343	100	0.03433
CRYPTOPHYCEAE				I.			
Cryptomonads			2	0	98	320	0.03139
CYANOPHYCEAE				II.			
Chroococcus (small cells)			4	0	196	12	0.00235
Planktolyngbya			119	0	5836	3.8	0.02218
Pseudanabaena			5	0	245	12.5	0.00307
Synechococcales small (iauv <20)			142	0	6964	5.25	0.03656
DINOPHYCEAE		1 .					

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

Biologist Biologist

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Dinoflagellates			1	0	49	20000	0.98087
Gymnodiniales			2	0	98	2000	0.19617
Gymnodiniales (small)			1	0	49	500	0.02452
Peridiniales			10	0	490	5000	2.45218
OTHER PHYTOPLANKTON							
Other small flagellates			1	0	49	80	0.00392
Prasinophytes			5	0	245	100	0.02452
TOTAL BGA						0.06416	
TOTAL TOXIGENIC BGA TOTAL POTENTIALLY TOXIC BGA				0		0.00000	

TOTAL ALGAE	19675	4.18269
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL TOXIGENIC BGA	0	0.00000
IOTAL BOA	10241	0.00410

⁺ 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

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.

* 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.

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

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