

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.:	6906817 21-12031			
LOCALITY:	EM2103113_006			
SITE:	Morella Basin @ Gauge			
SAMPLE:	Surface			
DATE SAMPLED :	24/02/2021			
DATE ANALYSED :	1/03/2021			
SAMPLED BY:	Sample analysed as received			

**COMMENTS: +** A diverse algal community was observed with low biovolume BGA most numerous. Water quality may be mildly impaired.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0291 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			1	0	49	200	0.00972
Naviculales			4	0	194	1400	0.27208
Nitzschia			1	0	49	400	0.01943
Pennales			1	0	49	300	0.01458
CHLOROPHYCEAE							
Ankistrodesmus			45	0	2186	132	0.28860
Chlamydomonads			1	0	49	250	0.01215
Chlorococcoids (<10um)			125	0	6073	60	0.36440
Oocystis			45	0	2186	300	0.65591
Selenastrum			70	0	3401	250	0.85026
CHRYSOPHYCEAE							
Other Chrysophyceae			1	0	49	350	0.01701
CRYPTOPHYCEAE				1	·		
Cryptomonads			1	0	49	320	0.01555
CYANOPHYCEAE				1			
Synechococcales small (iauv <20)			1565	0	76037	5.25	0.39920
DINOPHYCEAE		,					
Dinoflagellates			3	0	146	20000	2.91517
Gymnodiniales			2	0	97	2000	0.19434
Gymnodiniales (small)			2	0	97	500	0.04859
Peridiniales			3	0	146	5000	0.72879
EUGLENOPHYCEAE							
Euglena			0	1	2	7000	0.01360
OTHER PHYTOPLANKTON							
Other small flagellates			30	0	1458	80	0.11661
				Ŭ	1.100		0.11

ANALYST: Kirsten Mudie (signatory)
Biologist

METHOD NO.: MB010/MW024VCA

REVIEWED: Adam Deliyiannis
Biologist

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DATE: 02/03/2021



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Magnification		toxic (P)	- 200x 20	- 100x 500	Count (cells/mL)	Volume (um3)	Biovolume (mm3/L)
Fields			20	500			

TOTAL BGA	76037	0.39920
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	92317	6.93598

<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: Kirsten Mudie (signatory) REVIEWED: Adam Deliyiannis DATE: 02/03/2021 **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.