

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.:	6933880 21-15798			
LOCALITY:	EM2104707_017			
SITE:	Bonneys			
SAMPLE:	Surface			
DATE SAMPLED :	18/03/2021			
DATE ANALYSED :	23/03/2021			
SAMPLED BY:	Sample analysed as received			

COMMENTS: + High levels of low biovolume BGA and greens were present amongst a diverse algal community. Water quality is likely to be 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							
Amphora			1	0	49	500	0.02429
Chaetoceros			0	10	19	200	0.00389
Entomoneis			0	3	6	1000	0.00583
Naviculales			11	0	534	1400	0.74823
Nitzschia			3	0	146	400	0.05830
Pennales (small <20um)			5	0	243	251	0.06098
Pleurosigma			1	0	49	2000	0.09717
Rhizosolenia			0	2	4	500	0.00194
CHLOROPHYCEAE				1			
Chlorococcoids (<10um)			490	0	23807	60	1.42843
CRYPTOPHYCEAE							
Cryptomonads			2	0	97	320	0.03110
CYANOPHYCEAE							
Oscillatoriales (iauv 1-100)		Р	0	1850	3595	60.8	0.21860
Pseudanabaena			20	0	972	12.5	0.01215
Synechococcales small (iauv <20)			2550	0	123895	5.25	0.65045
DINOPHYCEAE							
Dinoflagellates			6	0	292	20000	5.83034
Gymnodiniales (small)			5	0	243	500	0.12147
OTHER PHYTOPLANKTON							
Other small flagellates			7	0	340	80	0.02721

ANALYST: Kirsten Mudie (signatory) REVIEWED: Adam Deliyiannis DATE: 23/03/2021
Biologist Biologist

METHOD NO.: MB010/MW024VCA Page 1 of 2



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Sedgewick-Rafter Vol.(ml) Concentration	1.0291 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	(Cells/IIIL)	(um3)	(1111113/L)

TOTAL BGA	128462	0.88119
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	3595	0.21860
TOTAL ALGAE	154291	9.32036

⁺ 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: 23/03/2021
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.