

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. :	6906828 21-12031				
LOCALITY:	EM2103113_017				
SITE:	Bonneys				
SAMPLE:	Surface				
DATE SAMPLED :	25/02/2021				
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	1.0235 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	0.00977
Chaetoceros			7	0	342	200	0.06839
Entomoneis			2	0	98	1000	0.09770
Naviculales			4	0	195	1400	0.27357
Pennales (small <20um)			4	0	195	251	0.04905
Pleurosigma			1	0	49	2000	0.09770
Rhizosolenia			0	10	20	500	0.00977
CHLOROPHYCEAE				1	·		
Ankistrodesmoideae			80	0	3908	132	0.51588
Chlamydomonads			1	0	49	250	0.01221
Chlorococcoids (<10um)			860	0	42013	60	2.52076
Oocystis			6	0	293	300	0.08793
Selenastrum			1	0	49	250	0.01221
CHRYSOPHYCEAE							
Other Chrysophyceae			1	0	49	350	0.01710
СҮАПОРНҮСЕЛЕ							
Planktolyngbya			15	0	733	3.8	0.00278
Synechococcales small (iauv <20)			1810	0	88422	5.25	0.46422
DINOPHYCEAE							
Dinoflagellates			2	0	98	20000	1.95408
Gymnodiniales (small)			8	0	391	500	0.19541
Peridiniales			1	0	49	5000	0.24426
Polykrikos			0	1	2	102170	0.19965
OTHER PHYTOPLANKTON							
Other small flagellates			55	0	2687	80	0.21495

ANALYST: Kirsten Mudie (signatory)
Biologist

REVIEWED: Adam Deliyiannis
Biologist

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DATE: 02/03/2021



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Magnification		toxic (P)	- 200x	- 100x	Count (cells/mL)	Volume	Biovolume (mm3/L)
Fields		*	20	500	(cells/iliL)	(um3)	(111113/2)

TOTAL BGA	89155	0.46700
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	139691	7.04740

⁺ 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

^{*} 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.