

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.:	6906812 21-12031				
LOCALITY:	EM2103113_001				
SITE:	Stony Well				
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 abundant. Water quality may be impaired.

Sedgewick-Rafter Vol.(ml) 1.0233 Concentration 1 : 4 Magnification Fields	(T)	- 200x 20	- 100x 500	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
BACILLARIOPHYCEAE						
Amphora		1	0	49	500	0.02443
Centrales		1	0	49	200	0.00977
Naviculales		2	0	98	1400	0.13679
Nitzschia		144	0	7035	400	2.81387
Pennales		4	0	195	300	0.05862
Pennales (small <20um)		5	0	244	251	0.06131
Pleurosigma		1	0	49	2000	0.09770
CHLOROPHYCEAE						
Ankistrodesmoideae		820	0	40059	132	5.28774
Chlorococcoids (<10um)		1620	0	79140	60	4.74841
CHRYSOPHYCEAE						
Other Chrysophyceae		1	0	49	350	0.01710
CRYPTOPHYCEAE						
Cryptomonads		2	0	98	320	0.03127
CYANOPHYCEAE						
Planktolyngbya		106	0	5178	3.8	0.01968
Pseudanabaena		16	0	782	12.5	0.00977
Synechococcales small (iauv <20)		7220	0	352711	5.25	1.85173
DINOPHYCEAE						
Dinoflagellates		6	0	293	20000	5.86224
OTHER PHYTOPLANKTON						
Other small flagellates		23	0	1124	80	0.08989

ANALYST: Kirsten Mudie (signatory) REVIEWED: Adam Deliyiannis DATE: 02/03/2021
Biologist Biologist

METHOD NO.: MB010/MW024VCA Page 1 of 2



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COMMENTS: + A diverse algal community was observed with low biovolume BGA abundant. Water quality may be impaired.

Sedgewick-Rafter Vol.(ml) Concentration	1.0235 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/iliL)	(um3)	(111113/2)

TOTAL BGA	358671	1.88118
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	487153	21.12031

<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.