

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.:	7086208 21-35420				
LOCALITY:	EM2113768-001				
SITE:	Stony Well				
SAMPLE:	Surface				
DATE SAMPLED :	13/07/2021				
DATE ANALYSED :	19/07/2021				
SAMPLED BY:	Sample analysed as received				

COMMENTS: + A diverse community of algal taxa was observed. Excessive levels of low biovolume BGA Synechococcales are likely to impair water quality.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0208 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							
Nitzschia			7	0	343	400	0.13715
Pennales			2	0	98	300	0.02939
Pennales (small <20um)			2	0	98	251	0.02459
Pleurosigma			0	1	2	2000	0.00392
CHLOROPHYCEAE							
Ankistrodesmoideae			122	0	5976	132	0.78879
Chlorococcoids (<10um)			54	0	2645	60	0.15870
CHRYSOPHYCEAE							
Other Chrysophytes			1	0	49	200	0.00980
CYANOPHYCEAE							
Planktolyngbya			15	0	735	3.8	0.00279
Synechococcales small (iauv <20)			15680	0	768025	5.25	4.03213
DINOPHYCEAE							
Gymnodiniales			2	0	98	2000	0.19592
Gymnodiniales (small)			4	0	196	500	0.09796
Peridiniales			0	1	2	5000	0.00980
OTHER PHYTOPLANKTON							
Other small flagellates			23	0	1127	80	0.09013
Prasinophytes			2	0	98	100	0.00980
Raphidophytes			0	11	22	7000	0.15086
TOTAL BGA		768760				4.03492	
TOTAL TOXIGENIC BGA TOTAL POTENTIALLY TOXIC BGA			0				0.00000
			0				0.00000
	TOTAI	L ALGAE			5.74172		

ANALYST: Adam Deliyiannis Biologist

METHOD NO.: MB010/MW024VCA

REVIEWED: Kirsten Mudie (signatory) Biologist

DATE: 19/07/2021

Page 1 of 2



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Ī	Sedgewick-Rafter Vol.(ml)	1.0208	Toxigenic				Individual	
1	Concentration	1:1	(T) or Potentially			Total Cell	Algal Unit	Total
1	Magnification		toxic (P)	- 200x	- 100x	Count (cells/mL)	Volume	Biovolume (mm3/L)
1	Fields		*	20	500	(Celis/IIIL)	(um3)	(111113/L)

⁺ 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: Adam Deliyiannis

METHOD NO.: MB010/MW024VCA

Biologist

REVIEWED: Kirsten Mudie (signatory)
Biologist

DATE: 19/07/2021

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.