

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.:	6906814	21-12031		
LOCALITY:	EM2103113_003			
SITE:	South Policeman Point			
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) Concentration Magnification Fields	1.0208 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		316	0	15478	400	6.19122	
Pennales		1	0	49	300	0.01469	
Pennales (small <20um)		10	0	490	251	0.12294	
CHLOROPHYCEAE	CHLOROPHYCEAE						
Ankistrodesmoideae		870	0	42614	132	5.62500	
Chlorococcoids (<10um)		1350	0	66125	60	3.96748	
CHRYSOPHYCEAE							
Other Chrysophyceae		1	0	49	350	0.01714	
CRYPTOPHYCEAE							
Cryptomonads		1	0	49	320	0.01567	
CYANOPHYCEAE							
Pseudanabaena		15	0	735	12.5	0.00918	
Spirulina		0	950	1861	5.73	0.01067	
Synechococcales small (iauv <20)		6680	0	327194	5.25	1.71777	
DINOPHYCEAE							
Dinoflagellates		12	0	588	20000	11.75549	
Gymnodiniales (small)		9	0	441	500	0.22042	
OTHER PHYTOPLANKTON							
Other small flagellates		50	0	2449	80	0.19592	
TOTAL BGA				329790		1.73762	
TOTAL TOXIGENIC BGA				0		0.00000	
TOTAL POTENTIALLY TOXIC BGA				0		0.00000	
	TOTAL ALGAE			458122		29.86360	

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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Sedgewick-Rafter Vol.(ml) Concentration	1.0208 1 : 1	Toxigenic (T) or Potentially			Total Cell	Individual Algal Unit	Total
Magnification		toxic (P)	- 200x	- 100x	Count (cells/mL)	Volume (um3)	Biovolume (mm3/L)
Fields		*	20	500	(00::0/1112)	(uiii3)	(

⁺ 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.