

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.:	187817 22-45580				
LOCALITY:	EM2209350-013				
SITE:	Parnka Point				
SAMPLE:	Surface				
DATE SAMPLED :	19/05/2022				
DATE ANALYSED :	24/05/2022				
SAMPLED BY:	Sample analysed as received				

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

	.037 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	48	200	0.00964			
Chaetoceros		2	0	96	200	0.01929			
Nitzschia		1	0	48	400	0.01929			
Pennales		1	0	48	300	0.01446			
Pennales (small <20um)		1	0	48	251	0.01210			
CHLOROPHYCEAE									
Ankistrodesmoideae		90	0	4339	132	0.57281			
Chlorococcoids (<10um)		495	0	23867	60	1.43202			
Dictyosphaerium		12	0	579	20	0.01157			
Monoraphidium		20	0	964	900	0.86789			
Oocystis		4	0	193	300	0.05786			
CRYPTOPHYCEAE									
Cryptomonads		3	0	145	320	0.04629			
CYANOPHYCEAE									
Synechococcales small (iauv <20)		2060	0	99325	5.25	0.52146			
DINOPHYCEAE									
Peridiniales		1	0	48	5000	0.24108			
TOTAL BGA TOTAL TOXIGENIC BGA		99325				0.52146			
		0				0.00000			
TOTAL POTENTIALLY TOXIC BGA			0						
TOTAL ALGAE				129748		3.82575			

ANALYST: Kirsten Mudie (signatory) REVIEWED: Adam Deliyiannis (signatory) DATE: 24/05/2022
Biologist Biologist

METHOD NO.: MB010/MW024VCA Page 1 of 2



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	Sedgewick-Rafter Vol.(ml) Concentration	1.037 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)
ı	Fields		*	20	500	(,	(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 (signatory) DATE: 24/05/2022
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.