

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. :	187810 22-45580			
LOCALITY:	EM2209350-006			
SITE:	Mark Point			
SAMPLE:	Surface			
DATE SAMPLED :	18/05/2022			
DATE ANALYSED :	24/05/2022			
SAMPLED BY:	Sample analysed as received			

COMMENTS: + A diverse community of algal taxa were observed. Current levels are unlikely to influence water qualiity.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0169 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			3	0	148	200	0.02950
Centrales - (5-10um)			1	0	49	80	0.00393
Pennales (small <20um)			1	0	49	251	0.01234
CHLOROPHYCEAE	CHLOROPHYCEAE						
Ankistrodesmoideae			3	0	148	132	0.01947
Chlorococcoids (<10um)			28	0	1377	60	0.08260
Crucigenia			12	0	590	30	0.01770
Dictyosphaerium			24	0	1180	20	0.02360
Elakatothrix			2	0	98	45	0.00443
Lagerheimia			1	0	49	500	0.02458
Monoraphidium (small)			36	0	1770	16	0.02832
Monoraphidium (large)			2	0	98	400	0.03934
Oocystis			11	0	541	300	0.16226
Planctonema			35	0	1721	800	1.37673
Scenedesmus			4	0	197	250	0.04917
Staurastrum			0	1	2	2000	0.00393
Tetraedron			1	0	49	150	0.00738
CRYPTOPHYCEAE				1			
Cryptomonads			15	0	738	320	0.23601
CYANOPHYCEAE							
Planktolyngbya			75	0	3688	3.8	0.01401
Pseudanabaena			30	0	1475	12.5	0.01844
Romeria			39	0	1918	31	0.05945
OTHER PHYTOPLANKTON							
Other small flagellates			5	0	246	80	0.01967

ANALYST: Adam Deliyiannis (signatory) REVIEWED: Louise Ungemach (signatory) DATE: 25/05/2022
Biologist Biologist

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Magnification		toxic (P)	- 200x	- 100x	Count (cells/mL)	Volume	Biovolume (mm3/L)
Fields		*	20	500	(cells/iliL)	(um3)	(IIIII3/L)

TOTAL BGA	7081	0.09190
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	16131	2.23286

⁺ 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 (signatory) REVIEWED: Louise Ungemach (signatory) DATE: 25/05/2022
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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.