

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. :	6933879 21-15798			
LOCALITY:	EM2104707_016			
SITE:	Noonameena			
SAMPLE:	Surface			
DATE SAMPLED :	18/03/2021			
DATE ANALYSED :	22/03/2021			
SAMPLED BY:	Sample analysed as received			

COMMENTS: + A diverse range of algae were present with current levels unlikely 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							
Amphora			2	0	98	500	0.04898
Centrales			54	0	2645	200	0.52900
Entomoneis			6	0	294	1000	0.29389
Naviculales			6	0	294	1400	0.41144
Nitzschia			12	0	588	400	0.23511
Pennales			6	0	294	300	0.08817
Pennales (small <20um)			7	0	343	251	0.08606
Pleurosigma			6	0	294	2000	0.58777
Rhizosolenia			4	0	196	500	0.09796
CHLOROPHYCEAE							
Chlorococcoids (<10um)			17	0	833	60	0.04996
Oocystis			4	0	196	300	0.05878
CRYPTOPHYCEAE							
Cryptomonads			3	0	147	320	0.04702
CYANOPHYCEAE							
Limnococcus (Chroococcus limneticus)			0	22	43	450	0.01940
Planktolyngbya			78	0	3821	3.8	0.01452
Pseudanabaena			20	0	980	12.5	0.01225
DINOPHYCEAE		1					
Dinoflagellates			3	0	147	20000	2.93887
Gymnodiniales (small)			1	0	49	500	0.02449
OTHER PHYTOPLANKTON							
Other small flagellates			11	0	539	80	0.04310

ANALYST: Kirsten Mudie (signatory)
Biologist

REVIEWED: *Adam Deliyiannis*Biologist

METHOD NO.: MB010/MW024VCA

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TOTAL BGA	4844	0.04616
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	11801	5.58677

⁺ 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: 23/03/2021
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.