

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. :	7136734 21-41798					
LOCALITY:	EM2116912-012					
SITE:	North Jacks Point					
SAMPLE:	Surface					
DATE SAMPLED :	24/08/2021					
DATE ANALYSED :	27/08/2021					
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 impact water quality.

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Sedgewick-Rafter Vol.(ml) 1.00 Concentration 1 Magnification Fields	(T)	- 200x 20	- 100x 500	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
BACILLARIOPHYCEAE						
Amphora		2	0	100	500	0.04977
Nitzschia		3	0	149	400	0.05973
Pennales		5	0	249	300	0.07466
Pennales (small <20um)		3	0	149	251	0.03748
Pleurosigma		0	2	4	2000	0.00796
CHLOROPHYCEAE						
Ankistrodesmoideae		78	0	3882	132	0.51244
Chlorococcoids (<10um)		63	0	3136	60	0.18813
CHRYSOPHYCEAE						
Other Chrysophytes		2	0	100	200	0.01991
CYANOPHYCEAE						
Planktolyngbya		15	0	747	3.8	0.00284
Synechococcales small (iauv <20)		16160	0	804300	5.25	4.22258
DINOPHYCEAE						
Gymnodiniales		1	0	50	2000	0.09954
Gymnodiniales (small)		3	0	149	500	0.07466
OTHER PHYTOPLANKTON						
Other small flagellates		20	0	995	80	0.07963
Prasinophytes		1	0	50	100	0.00498
Raphidophytes		1	0	50	7000	0.34840
TOTAL BGA		805047				4.22541
TOTAL TOXIGENIC BGA		0				0.00000
TOTAL POTENTIALLY TOXIC BGA		0				0.00000
то	814110				5.78270	

ANALYST: Adam Deliyiannis REVIEWED: Karen Simonsen (signatory) DATE: 27/08/2021
Biologist Biologist

METHOD NO.: MB010/MW024VCA Page 1 of 2



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Sedgewick-Rafter Vol.(ml) Concentration	1.0046 1 : 1	Toxigenic (T) or Potentially			Total Cell	Individual Algal Unit	Total
Magnification		toxic (P)	- 200x	- 100x	Count (cells/mL)	Volume	Biovolume (mm3/L)
Fields		*	20	500	(CCII3/IIIL)	(um3)	(111113/12)

⁺ 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 REVIEWED: Karen Simonsen (signatory) DATE: 27/08/2021
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.