

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. :	7116656 21-39298			
LOCALITY:	EM2115770-012			
SITE:	North Jacks Point			
SAMPLE:	Surface			
DATE SAMPLED :	9/08/2021			
DATE ANALYSED :	13/08/2021			
SAMPLED BY:	Sample analysed as received			

**COMMENTS: +** A diverse community of algal taxa was observed. Current levels are likely to impact water quality.

Sedgewick-Rafter Vol.(ml) 1.02 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		5	0	244	500	0.12207
Centrales		1	0	49	200	0.00977
Cocconeis		3	0	146	450	0.06592
Hantzschia		1	0	49	500	0.02441
Nitzschia		20	0	977	400	0.39063
Pennales		1	0	49	300	0.01465
Pennales (small <20um)		16	0	781	251	0.19609
Pleurosigma		1	0	49	2000	0.09766
CHLOROPHYCEAE						
Ankistrodesmoideae		40	0	1953	132	0.25781
Chlorococcoids (<10um)		63	0	3076	60	0.18457
CRYPTOPHYCEAE						
Cryptomonads		2	0	98	320	0.03125
CYANOPHYCEAE						
Planktolyngbya		20	0	977	3.8	0.00371
Synechococcales small (iauv <20)		30720	0	1500000	5.25	7.87500
DINOPHYCEAE						
Gymnodiniales (small)		13	0	635	500	0.31738
Peridiniales		0	1	2	5000	0.00977
OTHER PHYTOPLANKTON						
Other small flagellates		2	0	98	80	0.00781
Raphidophytes		1	0	49	7000	0.34180

ANALYST: Karen Simonsen (signatory) REVIEWED: Adam Deliyiannis DATE: 16/08/2021
Biologist Biologist

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COMMENTS: + A diverse community of algal taxa was observed. Current levels are likely to impact water quality.

Sedgewick-Rafter Vol.(ml) Concentration	1.024 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	(celis/iiiL)	(um3)	(111113/L)

TOTAL BGA	1500977	7.87871
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	1509232	9.95029

<sup>+</sup> 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: Karen Simonsen (signatory) REVIEWED: Adam Deliyiannis DATE: 16/08/2021
Biologist Biologist

METHOD NO.: MB010/MW024VCA Page 2 of 2

<sup>\*</sup> 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.