

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.:	7086209	21-35420		
LOCALITY:	EM2113768-002			
SITE:	North Jacks Point			
SAMPLE:	Surface			
DATE SAMPLED :	13/07/2021			
DATE ANALYSED :	19/07/2021			
SAMPLED BY:	Sample analysed as	s received		

COMMENTS: + A diverse community of algal taxa was observed. Excessive levels of low biovolume BGA Synechococcales are likely to impair water quality.

Sedgewick-Rafter Vol.(ml) 1.02 Concentration 1 Magnification Fields	(-)	- 200x 20	- 100x 500	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
BACILLARIOPHYCEAE						
Centrales		1	0	49	200	0.00976
Gyrosigma		0	1	2	1400	0.00273
Nitzschia		11	0	537	400	0.21480
Pennales		1	0	49	300	0.01465
Pennales (small <20um)		1	0	49	251	0.01225
CHLOROPHYCEAE						
Ankistrodesmoideae		145	0	7079	132	0.93439
Chlorococcoids (<10um)		32	0	1562	60	0.09373
CYANOPHYCEAE						
Synechococcales small (iauv <20)		19040	0	929506	5.25	4.87991
DINOPHYCEAE						
Gymnodiniales		3	0	146	2000	0.29291
Gymnodiniales (small)		2	0	98	500	0.04882
OTHER PHYTOPLANKTON						
Other small flagellates		16	0	781	80	0.06249
Prasinophytes		1	0	49	100	0.00488
Raphidophytes			1	2	7000	0.01367
TOTAL BGA		929506			4.87991	
TOTAL TOXIGENIC BGA				0		0.00000
TOTAL POTENTIALLY TOXIC BGA				0		0.00000
TOTAL ALGAE				939909		6.58499

ANALYST: Adam Deliyiannis Biologist

METHOD NO.: MB010/MW024VCA

REVIEWED: Kirsten Mudie (signatory) Biologist

DATE: 19/07/2021

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COMMENTS: + A diverse community of algal taxa was observed. Excessive levels of low biovolume BGA Synechococcales are likely to impair water quality.

Sedgewick-Rafter Vol.(ml) Concentration	1.0242 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)
Fields		*	20	500	(00.10.1112)	(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: Adam Deliyiannis
Biologist

METHOD NO.: MB010/MW024VCA

REVIEWED: Kirsten Mudie (signatory)
Biologist

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DATE: 19/07/2021

^{*} 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.