

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.:	6906831	21-12031	
LOCALITY:	EM2103113_020		
SITE:	Villa de Yumpa		
SAMPLE:	Surface		
DATE SAMPLED :	25/02/2021		
DATE ANALYSED :	1/03/2021		
SAMPLED BY:	Sample analysed as	received	

**COMMENTS: +** A diverse algal community was observed with low biovolume BGA abundant. Water quality may be impaired.

				-			
Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0145 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			1	0	49	500	0.02464
Centrales			2	0	99	200	0.01971
Nitzschia			76	0	3746	400	1.49828
Pennales			3	0	148	300	0.04436
Pennales (small <20um)			4	0	197	251	0.04948
Pleurosigma			0	2	4	2000	0.00789
CHLOROPHYCEAE					-		
Ankistrodesmoideae			650	0	32035	132	4.22868
Chlamydomonads			3	0	148	250	0.03696
Chlorococcoids (<10um)			1300	0	64071	60	3.84426
Oocystis			5	0	246	300	0.07393
CHRYSOPHYCEAE							
Other Chrysophyceae			19	0	936	350	0.32775
CRYPTOPHYCEAE							
Cryptomonads			2	0	99	320	0.03154
CYANOPHYCEAE					·		
Planktolyngbya			35	0	1725	3.8	0.00655
Pseudanabaena			3	0	148	12.5	0.00185
Synechococcales small (iauv <20)			13220	0	651552	5.25	3.42065
DINOPHYCEAE		-					
Gymnodiniales (small)			5	0	246	500	0.12321
OTHER PHYTOPLANKTON		- 1					
Other small flagellates			80	0	3943	80	0.31543

ANALYST: Kirsten Mudie (signatory)  ${\sf REVIEWED:} \textbf{\textit{Adam Deliyiannis}}$ **Biologist** 

Biologist

DATE: 02/03/2021

METHOD NO.: MB010/MW024VCA

Page 1 of 2



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Sedgewick-Rafter Vol.(ml) Concentration	1.0145 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	(Cells/IIIL)	(um3)	(IIIII3/L)

25 3.42905	653425	TOTAL BGA
0.00000	0	TOTAL TOXIGENIC BGA
0.00000	0	TOTAL POTENTIALLY TOXIC BGA
92 14.05517	759392	TOTAL ALGAE

<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: Kirsten Mudie (signatory) REVIEWED: Adam Deliyiannis DATE: 02/03/2021 **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.