

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. :	7064975 21-32332			
LOCALITY:	EM2112381-020			
SITE:	Villa de Yumpa			
SAMPLE:	Surface			
DATE SAMPLED :	28/06/2021			
DATE ANALYSED :	5/07/2021			
SAMPLED BY:	Sample analysed as received			

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

Pennales 1 0 49 3 Pennales (small < 20um)	al Unit lume Biovolume	Individual Algal Unit Volume (um3)	Total Cell Count (cells/mL)	- 100x 500	- 200x 20	Toxigenic (T) or Potentially toxic (P)	1.0105 1 : 1	Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields
Pennales 1 0 49 3 Pennales (small < 20um)								BACILLARIOPHYCEAE
Pennales (small <20um) 4 0 198 2 CHLOROPHYCEAE Ankistrodesmoideae 296 0 14646 6 Carteria 1 0 49 3 Chlorococcoids (<10um)	400 0.13855	400	346	0	7			Nitzschia
CHLOROPHYCEAE Ankistrodesmoideae 296 0 14646 6 Carteria 1 0 49 3 Chlorococcoids (<10um)	300 0.01484	300	49	0	1			Pennales
Ankistrodesmoideae 296 0 14646 6 Carteria 1 0 49 3 Chlorococcoids (<10um)	251 0.04968	251	198	0	4			Pennales (small <20um)
Carteria 1 0 49 3 Chlorococcoids (<10um)								CHLOROPHYCEAE
Chlorococcoids (<10um) 392 0 19396 CHRYSOPHYCEAE 2 0 99 3 CRYPTOPHYCEAE 2 0 1 2 3 Cryptomonads 0 1 2 3 CYANOPHYCEAE 32 63 6 Synechococcales small (iauv <20) 16480 0 815438 5 DINOPHYCEAE 5 0 2 4 200 Gymnodiniales (small) 5 0 247 8 OTHER PHYTOPLANKTON	132 1.93330	132	14646	0	296			Ankistrodesmoideae
CHRYSOPHYCEAE 2 0 99 3 CRYPTOPHYCEAE Cryptomonads 0 1 2 3 CYANOPHYCEAE Oscillatoriales (iauv 1-100) P 0 32 63 6 Synechococcales small (iauv <20) 16480 0 815438 5 DINOPHYCEAE Dinoflagellates 0 2 4 200 Gymnodiniales (small) 5 0 247 5 OTHER PHYTOPLANKTON	300 0.01484	300	49	0	1			Carteria
Other Chrysophyceae 2 0 99 3 CRYPTOPHYCEAE Cryptomonads 0 1 2 3 CYANOPHYCEAE Oscillatoriales (iauv 1-100) P 0 32 63 6 Synechococcales small (iauv <20)	60 1.16378	60	19396	0	392			Chlorococcoids (<10um)
CRYPTOPHYCEAE 0 1 2 3 CYANOPHYCEAE	CHRYSOPHYCEAE							
Cryptomonads 0 1 2 3 CYANOPHYCEAE Oscillatoriales (iauv 1-100) P 0 32 63 6 Synechococcales small (iauv <20)	350 0.03464	350	99	0	2			Other Chrysophyceae
CYANOPHYCEAE Oscillatoriales (iauv 1-100) P 0 32 63 6 Synechococcales small (iauv <20)								CRYPTOPHYCEAE
Oscillatoriales (iauv 1-100) P 0 32 63 6 Synechococcales small (iauv <20) 16480 0 815438 5 DINOPHYCEAE Dinoflagellates 0 2 4 200 Gymnodiniales (small) 5 0 247 5 OTHER PHYTOPLANKTON	320 0.00063	320	2	1	0			Cryptomonads
Synechococcales small (iauv <20) 16480 0 815438 5 DINOPHYCEAE 0 2 4 200 Gymnodiniales (small) 5 0 247 5 OTHER PHYTOPLANKTON		CYANOPHYCEAE						
DINOPHYCEAE Dinoflagellates 0 2 4 200 Gymnodiniales (small) 5 0 247 5 OTHER PHYTOPLANKTON	60.8 0.00385	60.8	63	32	0	Р		Oscillatoriales (iauv 1-100)
Dinoflagellates 0 2 4 200 Gymnodiniales (small) 5 0 247 5 OTHER PHYTOPLANKTON	5.25 4.28105	5.25	815438	0	16480			Synechococcales small (iauv <20)
Gymnodiniales (small) 5 0 247 5 OTHER PHYTOPLANKTON								DINOPHYCEAE
OTHER PHYTOPLANKTON	0000 0.07917	20000	4	2	0			Dinoflagellates
	500 0.12370	500	247	0	5			Gymnodiniales (small)
0, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,								OTHER PHYTOPLANKTON
Other small flagellates 6 0 297	80 0.02375	80	297	0	6			Other small flagellates
Prasinophytes 2 0 99	100 0.00990	100	99	0	2			Prasinophytes
Raphidophytes 1 0 49 70	7000 0.34636	7000	49	0	1			Raphidophytes

ANALYST: Adam Deliyiannis Biologist

REVIEWED: Kirsten Mudie (signatory)

Biologist

DATE: 05/07/2021

METHOD NO.: MB010/MW024VCA



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Sedgewick-Rafter Vol.(ml) 1.010: Concentration 1: Magnification Fields	Toxigenic (T) or Potentially toxic (P)	- 200x 20	- 100x 500	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
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TOTAL BGA	815501	4.28490
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	63	0.00385
TOTAL ALGAE	850982	8.21804

⁺ 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

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

METHOD NO.: MB010/MW024VCA

Biologist

REVIEWED: Kirsten Mudie (signatory) **Biologist**

DATE: 05/07/2021

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^{*} 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.