

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7484479 22-53363
LOCALITY :	EM2212384-004
SITE :	Villa de Yumpa
SAMPLE :	Surface
DATE SAMPLED :	30/06/2022
DATE ANALYSED :	6/07/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + Current high levels of algae are sufficient to impair water quality.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0169 1 : 1	Toxicogenic (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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BACILLARIOPHYCEAE

<i>Amphora</i>			2	0	98	500	0.04917
<i>Centrales</i>			1	0	49	200	0.00983
<i>Chaetoceros</i>			20	0	983	200	0.19668
<i>Naviculales</i>			1	0	49	1400	0.06884
<i>Nitzschia</i>			50	0	2458	400	0.98338
<i>Pennales</i>			1	0	49	300	0.01475
<i>Pennales (small <20um)</i>			7	0	344	251	0.08639

CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>			400	0	19668	132	2.59613
<i>Chlamydomonads</i>			1	0	49	250	0.01229
<i>Chlorococcoids (<10um)</i>			2640	0	129806	60	7.78838
<i>Monoraphidium (small)</i>			99	0	4868	16	0.07788

CRYPTOPHYCEAE

<i>Cryptomonads</i>			1	0	49	320	0.01573
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CYANOPHYCEAE

<i>Synechococcales small (iauv <20)</i>			8200	0	403186	5.25	2.11673
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DINOPHYCEAE

<i>Dinoflagellates</i>			1	0	49	20000	0.98338
<i>Gymnodiniales</i>			5	0	246	2000	0.49169
<i>Gymnodiniales (small)</i>			9	0	443	500	0.22126

OTHER PHYTOPLANKTON

<i>Other small flagellates</i>			45	0	2213	80	0.17701
<i>Prasinophytes</i>			5	0	246	100	0.02458

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

REVIEWED: **Natalie Alabaster**
Biologist

DATE: **07/07/2022**

METHOD NO.: MB010/MW024VCA

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Sedgewick-Rafter Vol.(ml)	1.0169	Toxigenic (T) or Potentially toxic (P)					
Concentration	1 : 1	*	- 200x	- 100x	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
Magnification			20	500			
Fields							

TOTAL BGA	403186	2.11673
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	564853	15.91410

+ 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.

* 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.

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Biologist

REVIEWED: **Natalie Alabaster**
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