

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7328751 22-06265
LOCALITY :	EM2201088-022
SITE :	Villa de Yumpa
SAMPLE :	Surface
DATE SAMPLED :	20/01/2022
DATE ANALYSED :	2/02/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + Excessive algal levels may impair water quality.

Sedgewick-Rafter Vol.(ml)	1.0046	Toxigenic (T) or Potentially toxic (P)	- 200x	- 100x	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
Concentration	1 : 1	*	20	500			
Magnification							
Fields							

BACILLARIOPHYCEAE

Nitzschia		224	0	11149	400	4.45949
Pennales		2	0	100	300	0.02986
Pennales (small <20um)		10	0	498	251	0.12493
Pleurosigma		0	1	2	2000	0.00398

CHLOROPHYCEAE

Ankistrodesmoideae		2150	0	107008	132	14.12502
Chlorococcoids (<10um)		1810	0	90086	60	5.40514
Oocystis		4	0	199	300	0.05973

CRYPTOPHYCEAE

Cryptomonads		1	0	50	320	0.01593
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CYANOPHYCEAE

Synechococcales small (iauv <20)		18800	0	935696	5.25	4.91240
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DINOPHYCEAE

Gymnodiniales		26	0	1294	2000	2.58809
Gymnodiniales (small)		1	0	50	500	0.02489

TOTAL BGA	935696	4.91240
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	1146132	31.74945

+ 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.

ANALYST: *Adam Deliyiannis (signatory)* REVIEWED: *Kirsten Mudie (signatory)*
Biologist Biologist

DATE: 02/02/2022

METHOD NO.: MB010/MW024VCA

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