

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	239355 22-48116
LOCALITY :	EM2210355-004
SITE :	Villa de Yumpa
SAMPLE :	Surface
DATE SAMPLED :	2/06/2022
DATE ANALYSED :	14/06/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + Current levels are likely to impact water quality.

Sedgewick-Rafter Vol.(ml)	1.0327	Toxicogenic (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

Amphora		1	0	48	500	0.02421
Centrales		2	0	97	200	0.01937
Chaetoceros		86	0	4164	200	0.83277
Entomoneis		0	1	2	1000	0.00194
Naviculales		1	0	48	1400	0.06778
Nitzschia		18	0	872	400	0.34860
Pennales		5	0	242	300	0.07263
Pennales (small <20um)		8	0	387	251	0.09722

CHLOROPHYCEAE

Ankistrodesmoideae		240	0	11620	132	1.53384
Chlorococcoids (<10um)		595	0	28808	60	1.72848
Monoraphidium (small)		10	0	484	16	0.00775

CRYPTOPHYCEAE

Cryptomonads		5	0	242	320	0.07747
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CYANOPHYCEAE

Synechococcales small (iauv <20)		6800	0	329234	5.25	1.72848
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DINOPHYCEAE

Gymnodiniales		2	0	97	2000	0.19367
Gymnodiniales (small)		1	0	48	500	0.02421
Peridinales		0	1	2	5000	0.00968

OTHER PHYTOPLANKTON

Prasinophytes		3	0	145	100	0.01453
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ANALYST: **Adam Deliyannis (signatory)**
Biologist

REVIEWED: **Louise Ungemach (signatory)**
Biologist

DATE: **14/06/2022**

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TOTAL BGA	329234	1.72848
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	376540	6.78261

+ 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 Deliyannis (signatory)* REVIEWED: *Louise Ungemach (signatory)*
Biologist Biologist

DATE: 14/06/2022