

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7136732 21-41798
LOCALITY :	EM2116912-010
SITE :	Villa de Yumpa
SAMPLE :	Surface
DATE SAMPLED :	24/08/2021
DATE ANALYSED :	27/08/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed. Excessive levels of low biovolume BGA Synechococcales are likely to impact water quality.

Sedgewick-Rafter Vol.(ml)	1.0169	Toxigenic (T) or Potentially toxic (P)			Total Cell Count (cells/mL)	Individual Algal Unit Volume (um ³)	Total Biovolume (mm ³ /L)
Concentration	1 : 1	*	- 200x	- 100x			
Magnification			20	500			
Fields							

BACILLARIOPHYCEAE

<i>Amphora</i>		1	0	49	500	0.02458
<i>Nitzschia</i>		5	0	246	400	0.09834
<i>Pennales (small <20um)</i>		4	0	197	251	0.04937
<i>Pleurosigma</i>		0	6	12	2000	0.02360

CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>		111	0	5458	132	0.72042
<i>Chlorococcoids (<10um)</i>		12	0	590	60	0.03540

CHRYSTOPHYCEAE

<i>Other Chrysophytes</i>		3	0	148	200	0.02950
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CYANOPHYCEAE

<i>Synechococcales small (iauv <20)</i>		11280	0	554627	5.25	2.91179
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DINOPHYCEAE

<i>Gymnodiniales (small)</i>		8	0	393	500	0.19668
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OTHER PHYTOPLANKTON

<i>Other small flagellates</i>		45	0	2213	80	0.17701
<i>Prasinophytes</i>		1	0	49	100	0.00492
<i>Raphidophytes</i>		0	1	2	7000	0.01377

TOTAL BGA	554627	2.91179
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	563984	4.28538

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+ 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.