ALS Water
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ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	187826 22-45580
LOCALITY :	EM2209350-022
SITE :	Villa de Yumpa
SAMPLE :	Surface
DATE SAMPLED :	19/05/2022
DATE ANALYSED :	24/05/2022
SAMPLED BY :	Sample analysed as received

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

Sedgewick-Rafter Vol.(ml) 1.0046 **Concentration** 1 : 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)**
BACILLARIOPHYCEAE						
Nitzschia		157	0	7814	400	3.12562
Pennales		1	0	50	300	0.01493
CHLOROPHYCEAE						
Ankistrodesmoideae		390	0	19411	132	2.56221
Chlorococcoids (<10um)		760	0	37826	60	2.26956
CYANOPHYCEAE						
Synechococcales small (iauv <20)		6720	0	334461	5.25	1.75592
DINOPHYCEAE						
Gymnodiniales		1	0	50	2000	0.09954
Gymnodiniales (small)		4	0	199	500	0.09954
OTHER PHYTOPLANKTON						
Other small flagellates		7	0	348	80	0.02787
Prasinophytes		2	0	100	100	0.00995

TOTAL BGA	**334461**	**1.75592**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**400259**	**9.96516**

+ 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)* DATE: **24/05/2022**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA