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ALGAL REPORT

CLIENT:	Australian Laboratory Services Pty Ltd SA					
LABORATORY NO./BATCH NO. :	7241921	21-55807				
LOCALITY:	EM2123012-022					
SITE:	Villa de Yumpa					
SAMPLE:	Surface					
DATE SAMPLED :	16/11/2021					
DATE ANALYSED :	22/11/2021					
SAMPLED BY:	Sample analysed as re	eceived				

COMMENTS: + A diverse range of algal taxa was osberved. Current excessive levels of low biovolume BGA Synechococcales will impact water quality.

congenient runter con()	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								
Centrales		2	0	97	200	0.01931		
Chaetoceros		3	0	145	200	0.02896		
Pennales		4	0	193	300	0.05792		
CHLOROPHYCEAE								
Ankistrodesmoideae		468	0	22587	132	2.98147		
Chlorococcoids (<10um)		1290	0	62259	60	3.73552		
CYANOPHYCEAE								
Synechococcales small (iauv <20)		30080	0	1451737	5.25	7.62162		
DINOPHYCEAE								
Gymnodiniales		2	0	97	2000	0.19305		
Gymnodiniales (small)		1	0	48	500	0.02413		
OTHER PHYTOPLANKTON								
Other small flagellates		11	0	531	80	0.04247		
Raphidophytes		0	12	23	7000	0.16216		
TOTAL BGA				1451737		7.62162		
TOTAL TOXIGENIC BGA		0				0.00000		
TOTAL POTENTIALLY	TOXIC BGA			0		0.00000		
то	TAL ALGAE			1537717		14.86660		

⁺ 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.

ANALYST: Adam Deliyiannis (signatory) REVIEWED: Kirsten Mudie (signatory) DATE: 23/11/2021
Biologist Biologist

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^{*} 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.