ALS Water
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ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	187823 22-45580
LOCALITY :	EM2209350-019
SITE :	Tilley U/S Morella
SAMPLE :	Surface
DATE SAMPLED :	19/05/2022
DATE ANALYSED :	24/05/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + Current levels of algae are unlikely to influence water quality.

Sedgewick-Rafter Vol.(ml) 1.0145 **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						
Centrales		0	2	4	200	0.00079
Pennales		1	0	49	300	0.01479
Pennales (small <20um)		1	0	49	251	0.01237
CHLOROPHYCEAE						
Chlorococcoids (<10um)		4	0	197	60	0.01183
Monoraphidium (small)		1	0	49	16	0.00079
CYANOPHYCEAE						
Synechococcales small (iauv <20)		6	0	296	5.25	0.00155
DINOPHYCEAE						
Gymnodiniales		0	1	2	2000	0.00394
Peridiniales		1	0	49	5000	0.24643
OTHER PHYTOPLANKTON						
Other small flagellates		2	0	99	80	0.00789

TOTAL BGA	**296**	**0.00155**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**794**	**0.30037**

+ 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: *Kirsten Mudie (signatory)* REVIEWED: *Adam Deliyiannis (signatory)* DATE: **24/05/2022**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA