ALS Water
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ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7328749 22-06265
LOCALITY :	EM2201088-020
SITE :	Tilley U/S Morella
SAMPLE :	Surface
DATE SAMPLED :	20/01/2022
DATE ANALYSED :	2/02/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + Current algal levels are unlikely to inlfuence water quality.

Sedgewick-Rafter Vol.(ml) 1.0407 **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						
Pennales		2	0	96	300	0.02883
CHLOROPHYCEAE						
Ankistrodesmoideae		2	0	96	132	0.01268
Chlorococcoids (<10um)		6	0	288	60	0.01730
Monoraphidium (small)		1	0	48	16	0.00077
Oocystis		4	0	192	300	0.05765
Scenedesmus		0	8	15	250	0.00384
CYANOPHYCEAE						
Synechococcales small (iauv <20)		68	0	3267	5.25	0.01715
DINOPHYCEAE						
Dinoflagellates		0	1	2	20000	0.03844
Peridiniales		3	0	144	5000	0.72067
OTHER PHYTOPLANKTON						
Other small flagellates		2	0	96	80	0.00769
Prasinophytes		3	0	144	100	0.01441

TOTAL BGA	**3267**	**0.01715**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**4388**	**0.91943**

+ 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: **02/02/2022**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA