ALS Water
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ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7791232 22-70934
LOCALITY :	EM2218950-011
SITE :	Tilley Watercourse
SAMPLE :	Surface
DATE SAMPLED :	29/09/2022
DATE ANALYSED :	4/10/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A moderately diverse community of algal taxa were observed. Curent levels are unlikely to impair water quality.

Sedgewick-Rafter Vol.(ml) 1.0151 **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						
Amphora		0	1	2	500	0.00099
Centrales		4	0	197	200	0.03940
Naviculales		1	0	49	1400	0.06896
CHLOROPHYCEAE						
Chlorococcoids (<10um)		12	0	591	60	0.03546
Monoraphidium (small)		11	0	542	16	0.00867
CYANOPHYCEAE						
Limnothrix/Geitlerinema/Anagnostidinema	P	0	32	63	17.5	0.00110
Synechococcales small (iauv <20)		47	0	2315	5.25	0.01215
OTHER PHYTOPLANKTON						
Other small flagellates		7	0	345	80	0.02758

TOTAL BGA	**2378**	**0.01326**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**63**	**0.00110**
TOTAL ALGAE	**4104**	**0.19432**

+ 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: *Louise Ungemach (signatory)* DATE: **06/10/2022**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA