ALS Water
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ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7218537 21-52583
LOCALITY :	EM2121437-021
SITE :	Tilley Swamp Drain WC OL
SAMPLE :	Surface
DATE SAMPLED :	26/10/2021
DATE ANALYSED :	9/11/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse range of algal taxa was observed. High levels of small BGA Synechococcales will impact water quality.

Sedgewick-Rafter Vol.(ml) 1.036 **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		1	0	48	200	0.00965
Pennales		1	0	48	300	0.01448
CHLOROPHYCEAE						
Ankistrodesmoideae		53	0	2558	132	0.33764
Chlamydomonads		1	0	48	250	0.01207
Chlorococcoids (<10um)		28	0	1351	60	0.08108
Sphaerocystis		84	0	4054	300	1.21622
CYANOPHYCEAE						
Synechococcales small (iauv <20)		1580	0	76255	5.25	0.40034
DINOPHYCEAE						
Gymnodiniales (small)		1	0	48	500	0.02413
OTHER PHYTOPLANKTON						
Other small flagellates		6	0	290	80	0.02317

TOTAL BGA	**76255**	**0.40034**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**84700**	**2.11877**

+ 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* **Biologist**

REVIEWED: *Kirsten Mudie (signatory)* **Biologist**

DATE: **09/11/2021**

METHOD NO.: MB010/MW024VCA