

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7152230 21-43664
LOCALITY :	EM2118068_021
SITE :	Tilley Swamp Drain DS Nth OL
SAMPLE :	Surface
DATE SAMPLED :	8/09/2021
DATE ANALYSED :	13/09/2021
SAMPLED BY :	Sample analysed as received

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

Sedgewick-Rafter Vol.(ml)	1.024	Toxicogenic (T) or Potentially toxic (P)	- 200x	- 100x	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
Concentration	1 : 1	*	20	500			
Magnification							
Fields							

BACILLARIOPHYCEAE

Centrales	1	0	49	200	0.00977
Entomoneis	1	0	49	1000	0.04883
Naviculales	1	0	49	1400	0.06836
Nitzschia	1	0	49	400	0.01953
Pennales	1	0	49	300	0.01465

CHLOROPHYCEAE

Ankistrodesmoideae	11	0	537	132	0.07090
Chlorococcoids (<10um)	8	0	391	60	0.02344

CHRYSOPHYCEAE

Other Chrysophyceae	1	0	49	350	0.01709
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CYANOPHYCEAE

Synechococcales small (iauv <20)	2	0	98	5.25	0.00051
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OTHER PHYTOPLANKTON

Other small flagellates	2	0	98	80	0.00781
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TOTAL BGA	98	0.00051
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	1418	0.28088

+ 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)**
Biologist

REVIEWED: **Adam Deliyiannis**
Biologist

DATE: **14/09/2021**

METHOD NO.: MB010/MW024VCA

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