

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	6933873 21-15798
LOCALITY :	EM2104707_010
SITE :	Tilley Swamp Drain
SAMPLE :	Surface
DATE SAMPLED :	17/03/2021
DATE ANALYSED :	22/03/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse algal community was observed with current algal levels unlikely to impair water quality.

Sedgewick-Rafter Vol.(ml)	1.0168	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

Naviculales		3	0	148	1400	0.20653
Pennales		1	0	49	300	0.01475
Pennales (small <20um)		4	0	197	251	0.04937

CHLOROPHYCEAE

Chlorococcoids (<10um)		11	0	541	60	0.03245
Crucigenia		12	0	590	30	0.01770
Oocystis		2	0	98	300	0.02950
Selenastrum		32	0	1574	250	0.39339

CRYPTOPHYCEAE

Cryptomonads		2	0	98	320	0.03147
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CYANOPHYCEAE

Microcystis	P	0	25	49	74	0.00364
Planktolyngbya		557	0	27390	3.8	0.10408
Synechococcales small (iauv <20)		13	0	639	5.25	0.00336

OTHER PHYTOPLANKTON

Other small flagellates		5	0	246	80	0.01967
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TOTAL BGA	28078	0.11108
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	49	0.00364
TOTAL ALGAE	31619	0.90592

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+ 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: **23/03/2021**

METHOD NO.: MB010/MW024VCA

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