

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6722411 20-45935
LOCALITY :	EM2017172-009
SITE :	Tilley Swamp Drain U/S Morella
SAMPLE :	Surface
DATE SAMPLED :	30/09/2020
DATE ANALYSED :	8/10/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed. Current levels are unlikely to impair water quality.

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

<i>Centrales</i>			3	0	146	200	0.02930
<i>Naviculales</i>			0	2	4	1400	0.00547
<i>Nitzschia</i>			0	1	2	400	0.00078
<i>Pennales</i>			0	4	8	300	0.00234
<i>Pennales (small <20um)</i>			2	0	98	251	0.02451

CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>			59	0	2881	132	0.38027
<i>Chlorococcoids (<10um)</i>			17	0	830	60	0.04980
<i>Selenastrum</i>			6	0	293	250	0.07324

CYANOPHYCEAE

<i>Planktolyngbya</i>			17	0	830	3.8	0.00315
<i>Synechococcales small (iauv <20)</i>			660	0	32227	5.25	0.16919

DINOPHYCEAE

<i>Gymnodiniales (small)</i>			1	0	49	500	0.02441
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OTHER PHYTOPLANKTON

<i>Other small flagellates</i>			8	0	391	80	0.03125
<i>Prasinophytes</i>			3	0	146	100	0.01465

TOTAL BGA	33057	0.17234
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	37905	0.80838

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Concentration	1 : 1	*	20	500			
Magnification							
Fields							

+ 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.