

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7136742 21-41798
LOCALITY :	EM211912-020
SITE :	Tilley Swamp D/S North Outlet
SAMPLE :	Surface
DATE SAMPLED :	24/08/2021
DATE ANALYSED :	30/08/2021
SAMPLED BY :	Sample analysed as received

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

Sedgewick-Rafter Vol.(ml)	1.0169	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	0.00983
Centrales - (5-10um)		1	0	49	80	0.00393
Chaetoceros		2	0	98	200	0.01967
Entomoneis		0	1	2	1000	0.00197
Naviculales		1	0	49	1400	0.06884
Nitzschia		1	0	49	400	0.01967
Pennales		2	0	98	300	0.02950

CHLOROPHYCEAE

Ankistrodesmoideae		7	0	344	132	0.04543
Chlorococcoids (<10um)		4	0	197	60	0.01180
Didymocystis		2	0	98	41	0.00403
Oocystis		1	0	49	300	0.01475

CHRYSOPHYCEAE

Other Chrysophyceae		0	6	12	350	0.00413
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CRYPTOPHYCEAE

Cryptomonads		1	0	49	320	0.01573
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CYANOPHYCEAE

Pseudanabaena		0	26	51	12.5	0.00064
Synechococcales small (iauv <20)		15	0	738	5.25	0.00387

OTHER PHYTOPLANKTON

Other small flagellates		8	0	393	80	0.03147
Raphidophytes		0	3	6	7000	0.04130

ANALYST: **Adam Deliyannis**
Biologist

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

DATE: **30/08/2021**

METHOD NO.: MB010/MW024VCA

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Sedgewick-Rafter Vol.(ml)	1.0169	Toxigenic (T) or Potentially toxic (P)	- 200x	- 100x	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um ³)	Total Biovolume (mm ³ /L)
Concentration	1 : 1	*	20	500			
Magnification							
Fields							

TOTAL BGA	789	0.00451
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	2331	0.32657

+ 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

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Biologist

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