

## ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7171307 21-46438
LOCALITY :	EM2119079-021
SITE :	Tilley Swamp Drain DS Nth
SAMPLE :	Surface
DATE SAMPLED :	23/09/2021
DATE ANALYSED :	28/09/2021
SAMPLED BY :	Sample analysed as received

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

Sedgewick-Rafter Vol.(ml)	1.0046	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	50	200	0.00995
Chaetoceros		1	0	50	200	0.00995
Entomoneis		1	0	50	1000	0.04977
Nitzschia		1	0	50	400	0.01991
Pennales		6	0	299	300	0.08959
Pennales (small <20um)		2	0	100	251	0.02499

### CHLOROPHYCEAE

Ankistrodesmoideae		55	0	2737	132	0.36134
Chlamydomonads		1	0	50	250	0.01244
Chlorococcoids (<10um)		4	0	199	60	0.01195
Filamentous Green		0	1	2	386	0.00077
Monoraphidium		3	0	149	900	0.13438
Oocystis		1	0	50	300	0.01493

### CHRYSTOPHYCEAE

Other Chrysophyceae		2	0	100	350	0.03484
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### CYANOPHYCEAE

Oscillatoriales (iauv 101-200)	P	0	49	98	142.8	0.01393
Pseudanabaena		7	0	348	12.5	0.00435
Snowella		30	0	1493	9	0.01344
Synechococcales small (iauv <20)		69	0	3434	5.25	0.01803

### OTHER PHYTOPLANKTON

Other small flagellates		5	0	249	80	0.01991
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ANALYST: **Kirsten Mudie (signatory)**  
Biologist

REVIEWED: **Adam Deliyiannis**  
Biologist

DATE: **28/09/2021**

METHOD NO.: MB010/MW024VCA

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Sedgewick-Rafter Vol.(ml)	1.0046	Toxigenic (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							

TOTAL BGA	5373	0.04975
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	98	0.01393
TOTAL ALGAE	9508	0.84447

+ 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  $\beta$ -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

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