

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7171308 21-46438
LOCALITY :	EM2119079-022
SITE :	Tilley Swamp Drain WC OL
SAMPLE :	Surface
DATE SAMPLED :	22/09/2021
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) Concentration Magnification Fields	1.0722 1 : 1	Toxigenic (T) or Potentially toxic (P) *	- 200x 20	- 100x 500	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
---	-----------------	--	--------------	---------------	-----------------------------------	---	-------------------------------

BACILLARIOPHYCEAE

<i>Centrales</i>		4	0	187	200	0.03731
<i>Chaetoceros</i>		2	0	93	200	0.01865
<i>Entomoneis</i>		1	0	47	1000	0.04663
<i>Naviculales</i>		1	0	47	1400	0.06529
<i>Nitzschia</i>		0	1	2	400	0.00075
<i>Pennales</i>		5	0	233	300	0.06995
<i>Pennales (small <20um)</i>		1	0	47	251	0.01170

CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>		44	0	2052	132	0.27084
<i>Chlamydomonads</i>		1	0	47	250	0.01166
<i>Chlorococcoids (<10um)</i>		7	0	326	60	0.01959
<i>Oocystis</i>		1	0	47	300	0.01399
<i>Sphaerocystis</i>		0	8	15	300	0.00448

CRYPTOPHYCEAE

<i>Cryptomonads</i>		1	0	47	320	0.01492
---------------------	--	---	---	----	-----	---------

CYANOPHYCEAE

<i>Pseudanabaena</i>		9	0	420	12.5	0.00525
<i>Synechococcales small (iauv <20)</i>		20	0	933	5.25	0.00490

OTHER PHYTOPLANKTON

<i>Other small flagellates</i>		1	0	47	80	0.00373
--------------------------------	--	---	---	----	----	---------

TOTAL BGA	1353	0.01014
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	4590	0.59963

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

REVIEWED: **Adam Deliyiannis**
Biologist

DATE: **28/09/2021**

METHOD NO.: MB010/MW024VCA

Page 1 of 2

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7171308 21-46438
LOCALITY :	EM2119079-022
SITE :	Tilley Swamp Drain WC OL
SAMPLE :	Surface
DATE SAMPLED :	22/09/2021
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)	1.0722	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							

+ 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 Deliyannis**
Biologist

DATE: **28/09/2021**

METHOD NO.: MB010/MW024VCA

Page 2 of 2