

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7056280 21-31436
LOCALITY :	EM2111820-018
SITE :	McGrath Flat North
SAMPLE :	Surface
DATE SAMPLED :	21/06/2021
DATE ANALYSED :	24/06/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed and low biovolume BGA Synechococcales were most numerous. Current levels are likely to impair water quality.

Sedgewick-Rafter Vol.(ml)	1.0208	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							

BACILLARIOPHYCEAE

Centrales	1	0	49	200	0.00980
Naviculales	0	3	6	1400	0.00823
Nitzschia	12	0	588	400	0.23511
Pennales	1	0	49	300	0.01469
Pleurosigma	0	3	6	2000	0.01176

CHLOROPHYCEAE

Ankistrodesmoideae	290	0	14205	132	1.87500
Chlorococcoids (<10um)	344	0	16850	60	1.01097

CRYPTOPHYCEAE

Cryptomonads	0	2	4	320	0.00125
--------------	---	---	---	-----	---------

CYANOPHYCEAE

Synechococcales small (iauv <20)	16960	0	830721	5.25	4.36129
----------------------------------	-------	---	--------	------	---------

DINOPHYCEAE

Dinoflagellates	1	0	49	20000	0.97962
Gymnodiniales	14	0	686	2000	1.37147
Peridinales	1	0	49	5000	0.24491

OTHER PHYTOPLANKTON

Other small flagellates	4	0	196	80	0.01567
Prasinophytes	3	0	147	100	0.01469

TOTAL BGA	830721	4.36129
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	863605	10.15447

ANALYST: *Adam Deliyannis*
Biologist

REVIEWED: *Louise Ungemach (signatory)*
Biologist

DATE: **28/06/2021**

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7056280 21-31436
LOCALITY :	EM2111820-018
SITE :	McGrath Flat North
SAMPLE :	Surface
DATE SAMPLED :	21/06/2021
DATE ANALYSED :	24/06/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed and low biovolume BGA Synechococcales were most numerous. Current levels are likely to impair water quality.

Sedgewick-Rafter Vol.(ml)	1.0208	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.