

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	239333 22-48115
LOCALITY :	EM2210354-006
SITE :	McGrath Flat North
SAMPLE :	Surface
DATE SAMPLED :	1/06/2022
DATE ANALYSED :	12/06/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + Current levels are likely to impact water quality.

Sedgewick-Rafter Vol.(ml)	1.0744	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

<i>Chaetoceros</i>		1	0	47	200	0.00931
<i>Entomoneis</i>		1	0	47	1000	0.04654
<i>Naviculales</i>		6	0	279	1400	0.39092
<i>Nitzschia</i>		2	0	93	400	0.03723
<i>Pennales</i>		8	0	372	300	0.11169
<i>Pennales (small <20um)</i>		10	0	465	251	0.11681

CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>		8	0	372	132	0.04914
<i>Chlorococcoids (<10um)</i>		176	0	8191	60	0.49144
<i>Monoraphidium (small)</i>		46	0	2141	16	0.03425
<i>Monoraphidium (large)</i>		2	0	93	400	0.03723

CYANOPHYCEAE

<i>Limnithrix/Geitlerinema/Anagnostidinema</i>	P	25	0	1163	17.5	0.02036
<i>Synechococcales small (iauv <20)</i>		1410	0	65618	5.25	0.34449

DINOPHYCEAE

<i>Peridinales</i>		0	3	6	5000	0.02792
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OTHER PHYTOPLANKTON

<i>Other small flagellates</i>		1	0	47	80	0.00372
<i>Prasinophytes</i>		1690	0	78649	100	7.86485

TOTAL BGA	66781	0.36485
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	1163	0.02036
TOTAL ALGAE	157583	9.58591

ANALYST: *Adam Deliyiannis (signatory)* REVIEWED: *Louise Ungemach (signatory)*
Biologist Biologist

DATE: 14/06/2022

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+ 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.

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