

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6695256 20-42534
LOCALITY :	EM2015594-008
SITE :	McGrath Flat North
SAMPLE :	Surface
DATE SAMPLED :	8/09/2020
DATE ANALYSED :	11/09/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse and numerous community of algal taxa was observed. Current levels may impair water quality.

Sedgewick-Rafter Vol.(ml)	1.0138	Toxigenic (T) or Potentially toxic (P)			Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
Concentration	1 : 1	*	- 200x	- 100x			
Magnification			20	500			
Fields							
BACILLARIOPHYCEAE							
<i>Amphora</i>			0	1	2	500	0.00099
<i>Centrales</i>			1	0	49	200	0.00986
<i>Chaetoceros</i>			24	0	1184	200	0.23673
<i>Naviculales</i>			1	0	49	1400	0.06905
CHLOROPHYCEAE							
<i>Ankistrodesmoideae</i>			72	0	3551	132	0.46873
<i>Chlamydomonads</i>			7	0	345	250	0.08631
<i>Chlorococcoids (<10um)</i>			244	0	12034	60	0.72204
CRYPTOPHYCEAE							
<i>Cryptomonads</i>			11	0	543	320	0.17360
CYANOPHYCEAE							
<i>Planktolyngbya</i>			288	0	14204	3.8	0.05398
<i>Synechococcales small (iauv <20)</i>			1450	0	71513	5.25	0.37544
DINOPHYCEAE							
<i>Dinoflagellates</i>			0	6	12	20000	0.23673
<i>Gymnodiniales</i>			0	1	2	2000	0.00395
<i>Gymnodiniales (small)</i>			15	0	740	500	0.36990
<i>Peridinales</i>			2	0	99	5000	0.49319
OTHER PHYTOPLANKTON							
<i>Other small flagellates</i>			13	0	641	80	0.05129
<i>Prasinophytes</i>			1	0	49	100	0.00493

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TOTAL BGA	85717	0.42942
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	105017	3.35672

+ 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.