

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6722415 20-45935
LOCALITY :	EM2017172-013
SITE :	Mark Point
SAMPLE :	Surface
DATE SAMPLED :	30/09/2020
DATE ANALYSED :	6/10/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed with small greens and low biovolume BGA most numerous. Current combined levels are unlikely to impair water quality.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.024 1 : 1	Toxicogenic (T) or Potentially toxic (P) *	- 200x 20	- 100x 500	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um ³)	Total Biovolume (mm ³ /L)
BACILLARIOPHYCEAE							
<i>Centrales</i>			1	0	49	200	0.00977
<i>Nitzschia</i>			0	3	6	400	0.00234
<i>Pennales (small <20um)</i>			3	0	146	251	0.03677
CHLOROPHYCEAE							
<i>Ankistrodesmoideae</i>			2	0	98	132	0.01289
<i>Chlamydomonads</i>			1	0	49	250	0.01221
<i>Chlorococcoids (<10um)</i>			7	0	342	60	0.02051
<i>Crucigenia</i>			12	0	586	30	0.01758
<i>Oocystis</i>			1	0	49	300	0.01465
<i>Planctonema</i>			10	0	488	800	0.39063
<i>Selenastrum</i>			1	0	49	250	0.01221
CHRYSTOPHYCEAE							
<i>Other Chrysophyceae</i>			1	0	49	350	0.01709
CRYPTOPHYCEAE							
<i>Cryptomonads</i>			23	0	1123	320	0.35938
CYANOPHYCEAE							
<i>Synechococcales small (iauv <20)</i>			100	0	4883	5.25	0.02563
<i>Synechococcales large (iauv 20-86)</i>			0	384	750	54	0.04050
OTHER PHYTOPLANKTON							
<i>Other small flagellates</i>			19	0	928	80	0.07422
<i>Prasinophytes</i>			4	0	195	100	0.01953

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Sedgewick-Rafter Vol.(ml)	1.024	Toxigenic (T) or Potentially toxic (P)	- 200x	- 100x	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um ³)	Total Biovolume (mm ³ /L)
Concentration	1 : 1	*	20	500			
Magnification							
Fields							

TOTAL BGA	5633	0.06613
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	9790	1.06589

+ 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: **Adam Deliyiannis**
Biologist

REVIEWED: **Karen Simonsen (signatory)**
Biologist

DATE: **07/10/2020**

METHOD NO.: MB010/MW024CV

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