

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6695253 20-42534
LOCALITY :	EM2015594-005
SITE :	Long Point
SAMPLE :	Surface
DATE SAMPLED :	8/09/2020
DATE ANALYSED :	11/09/2020
SAMPLED BY :	Sample analysed as received

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

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0268 1 : 1	Toxicogenic (T) or Potentially toxic (P) *	- 200x 20	- 100x 500	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
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BACILLARIOPHYCEAE

<i>Chaetoceros</i>			43	0	2094	200	0.41878
<i>Nitzschia</i>			0	2	4	400	0.00156
<i>Pennales (small <20um)</i>			1	0	49	251	0.01222

CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>			5	0	243	132	0.03214
<i>Chlamydomonads</i>			6	0	292	250	0.07304
<i>Chlorococcoids (<10um)</i>			22	0	1071	60	0.06428
<i>Crucigenia</i>			4	0	195	30	0.00584
<i>Oocystis</i>			0	4	8	300	0.00234
<i>Planctonema</i>			0	7	14	800	0.01091

CHRYSOPHYCEAE

<i>Other Chrysophyceae</i>			1	0	49	350	0.01704
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CRYPTOPHYCEAE

<i>Cryptomonads</i>			88	0	4285	320	1.37125
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CYANOPHYCEAE

<i>Synechococcales small (iauv <20)</i>			405	0	19721	5.25	0.10354
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DINOPHYCEAE

<i>Dinoflagellates</i>			0	2	4	20000	0.07791
<i>Gymnodiniales</i>			0	2	4	2000	0.00779
<i>Gymnodiniales (small)</i>			1	0	49	500	0.02435

EUGLENOPHYCEAE

<i>Eutreptia</i>			1	0	49	1000	0.04869
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OTHER PHYTOPLANKTON

<i>Other small flagellates</i>			36	0	1753	80	0.14024
<i>Prasinophytes</i>			8	0	390	100	0.03896

ANALYST: *Adam Deliyiannis*
Biologist

REVIEWED: *Kirsten Mudie (signatory)*
Biologist

DATE: **11/09/2020**

METHOD NO.: MB010/MW024CV

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Sedgewick-Rafter Vol.(ml)	1.0268	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	19721	0.10354
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	30274	2.45088

+ 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.