

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	6781613 20-54272
LOCALITY :	EM2020558_004
SITE :	Mark Point
SAMPLE :	Surface
DATE SAMPLED :	17/11/2020
DATE ANALYSED :	23/11/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed. Levels may mildly impact water quality.

Sedgewick-Rafter Vol.(ml)	1.0235	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

<i>Chaetoceros</i>	27	0	1319	200	0.26380
<i>Pennales</i>	0	1	2	300	0.00059

CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>	1	0	49	132	0.00645
<i>Ankistrodesmus</i>	1	0	49	132	0.00645
<i>Chlamydomonads</i>	11	0	537	250	0.13434
<i>Chlorococcoids (<10um)</i>	10	0	489	60	0.02931
<i>Crucigenia</i>	48	0	2345	30	0.07035
<i>Lagerheimia</i>	4	0	195	500	0.09770
<i>Oocystis</i>	24	0	1172	300	0.35173
<i>Planctonema</i>	129	0	6302	800	5.04152
<i>Scenedesmus</i>	4	0	195	250	0.04885

CRYPTOPHYCEAE

<i>Cryptomonads</i>	3	0	147	320	0.04690
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CYANOPHYCEAE

<i>Limnolyngbya (Planktolyngbya circumcreta)</i>	52	0	2540	4.9	0.01245
<i>Planktolyngbya</i>	26	0	1270	3.8	0.00483
<i>Synechococcales small (iauv <20)</i>	187	0	9135	5.25	0.04796

DINOPHYCEAE

<i>Gymnodiniales (small)</i>	2	0	98	500	0.04885
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EUGLENOPHYCEAE

<i>Eutreptia</i>	2	0	98	1000	0.09770
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OTHER PHYTOPLANKTON

<i>Other small flagellates</i>	8	0	391	80	0.03127
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ANALYST: **Adam Deliyiannis**
Biologist

REVIEWED: **Kirsten Mudie (signatory)**
Biologist

DATE: **23/11/2020**

METHOD NO.: MB010/MW024VCA

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TOTAL BGA	12945	0.06523
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	26333	6.34105

+ 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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