

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7548885 22-57206
LOCALITY :	EM2213882-002
SITE :	Mark Point
SAMPLE :	Surface
DATE SAMPLED :	20/07/2022
DATE ANALYSED :	26/07/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A moderately diverse algal community was observed with current levels insufficient to influence 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

Centrales		1	0	49	200	0.00977
Pennales		0	1	2	300	0.00059

CHLOROPHYCEAE

Chlorococcoids (<10um)		5	0	244	60	0.01466
Crucigenia		4	0	195	30	0.00586
Monoraphidium (small)		3	0	147	16	0.00234
Planctonema		0	41	80	800	0.06409

CRYPTOPHYCEAE

Cryptomonads		1	0	49	320	0.01563
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CYANOPHYCEAE

Synechococcales small (iauv <20)		7	0	342	5.25	0.00180
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DINOPHYCEAE

Gymnodiniales		4	0	195	2000	0.39082
Gymnodiniales (small)		2	0	98	500	0.04885

OTHER PHYTOPLANKTON

Other small flagellates		2	0	98	80	0.00782
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TOTAL BGA	342	0.00180
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	1499	0.56223

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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.

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

REVIEWED: **Adam Deliyiannis (signatory)**
Biologist

DATE: **26/07/2022**

METHOD NO.: MB010/MW024VCA

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