

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7684099 22-64966
LOCALITY :	EM2216763-007
SITE :	Sth Policeman Point
SAMPLE :	Surface
DATE SAMPLED :	31/08/2022
DATE ANALYSED :	6/09/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse range of algae was observed. Levels may impact on water quality.

Sedgewick-Rafter Vol.(ml)	1.0257	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		0	1	2	200	0.00039
Pennales		6	0	292	300	0.08774
Pennales (small <20um)		3	0	146	251	0.03671

CHLOROPHYCEAE

Chlorococcoids		1100	0	53622	500	26.81096
Dictyosphaerium		4	0	195	20	0.00390
Monoraphidium (small)		108	0	5265	16	0.08424

CYANOPHYCEAE

Planktolyngbya		20	0	975	3.8	0.00370
Synechococcales small (iauv <20)		1610	0	78483	5.25	0.41204

DINOPHYCEAE

Gymnodiniales		2	0	97	2000	0.19499
Gymnodiniales (small)		1	0	49	500	0.02437
Peridinales		0	2	4	5000	0.01950

OTHER PHYTOPLANKTON

Other small flagellates		17	0	829	80	0.06630
Prasinophytes		4	0	195	100	0.01950

TOTAL BGA	79458	0.41574
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	140154	27.76433

ANALYST: **Lauren Minett (signatory)**
Biologist

REVIEWED: **Louise Ungemach (signatory)**
Biologist

DATE: **06/09/2022**

METHOD NO.: MB010/MW024VCA

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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.

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