

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7064974 21-32332
LOCALITY :	EM2112381-019
SITE :	Parnka Point
SAMPLE :	Surface
DATE SAMPLED :	28/06/2021
DATE ANALYSED :	5/07/2021
SAMPLED BY :	Sample analysed as received

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

Sedgewick-Rafter Vol.(ml)	1.0169	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	2	0	98	200	0.01967
Naviculales	0	1	2	1400	0.00275
Pennales	1	0	49	300	0.01475
Pennales (small <20um)	1	0	49	251	0.01234

CHLOROPHYCEAE

Ankistrodesmoideae	25	0	1229	132	0.16226
Carteria	1	0	49	300	0.01475
Chlorococcoids (<10um)	208	0	10227	60	0.61363

CYANOPHYCEAE

Synechococcales small (iauv <20)	5120	0	251746	5.25	1.32166
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DINOPHYCEAE

Dinoflagellates	0	1	2	20000	0.03934
Gymnodiniales (small)	7	0	344	500	0.17209

OTHER PHYTOPLANKTON

Other small flagellates	19	0	934	80	0.07474
Raphidophytes	1	0	49	7000	0.34418

TOTAL BGA	251746	1.32166
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	264778	2.79216

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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: **Adam Deliyannis**
Biologist

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

DATE: **05/07/2021**

METHOD NO.: MB010/MW024VCA

Page 2 of 2