

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7791204 22-70933
LOCALITY :	EM2218952-003
SITE :	Parnka Point
SAMPLE :	Surface
DATE SAMPLED :	29/09/2022
DATE ANALYSED :	7/10/2022
SAMPLED BY :	Sample analysed as received

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

Sedgewick-Rafter Vol.(ml)	1.0303	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>Amphora</i>		1	0	49	500	0.02426
<i>Pennales</i>		1	0	49	300	0.01456
<i>Pennales (small <20um)</i>		1	0	49	251	0.01218
<i>Pleurosigma</i>		0	1	2	2000	0.00388

CHLOROPHYCEAE

<i>Chlorococcoids (<10um)</i>		1290	0	62603	60	3.75619
<i>Monoraphidium (small)</i>		9	0	437	16	0.00699

CYANOPHYCEAE

<i>Planktolyngbya</i>		20	0	971	3.8	0.00369
<i>Synechococcales small (iauv <20)</i>		7600	0	368825	5.25	1.93633

DINOPHYCEAE

<i>Gymnodiniales</i>		3	0	146	2000	0.29118
<i>Gymnodiniales (small)</i>		7	0	340	500	0.16985

OTHER PHYTOPLANKTON

<i>Other small flagellates</i>		244	0	11841	80	0.94730
<i>Prasinophytes</i>		6	0	291	100	0.02912

TOTAL BGA	369796	1.94002
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	445603	7.19553

ANALYST: *Adam Deliyannis (signatory)* REVIEWED: *Natalie Alabaster*
Biologist Biologist

DATE: **10/10/2022**

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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 (signatory)* REVIEWED: *Natalie Alabaster*
Biologist Biologist

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METHOD NO.: MB010/MW024VCA

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