

## ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7218533 21-52583
LOCALITY :	EM2121437-012
SITE :	Parnka Point
SAMPLE :	Surface
DATE SAMPLED :	26/10/2021
DATE ANALYSED :	9/11/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A moderately diverse algal community was observed with excessive levels of small BGA likely to impair water quality.

Sedgewick-Rafter Vol.(ml)	1.0105	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

Pennales		0	2	4	300	0.00119
Pennales (small <20um)		2	0	99	251	0.02484

### CHLOROPHYCEAE

Ankistrodesmoideae		320	0	15834	132	2.09005
Chlorococcoids (<10um)		760	0	37605	60	2.25631

### CYANOPHYCEAE

Synechococcales small (iauv <20)		22720	0	1124196	5.25	5.90203
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### DINOPHYCEAE

Gymnodiniales		10	0	495	2000	0.98961
Gymnodiniales (small)		5	0	247	500	0.12370

### OTHER PHYTOPLANKTON

Other small flagellates		9	0	445	80	0.03563
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TOTAL BGA	1124196	5.90203
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	1178925	11.42335

+ 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  $\beta$ -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 Deliyannis**  
Biologist

DATE: **10/11/2021**

METHOD NO.: MB010/MW024VCA

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