

## ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7171300 21-46438
LOCALITY :	EM2119079-014
SITE :	Snipe Point
SAMPLE :	Surface
DATE SAMPLED :	22/09/2021
DATE ANALYSED :	28/09/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + Excessive levels of low biovolume BGA were present, impairing water quality.

Sedgewick-Rafter Vol.(ml)	1.0105	Toxicogenic (T) or Potentially toxic (P)			Total Cell Count (cells/mL)	Individual Algal Unit Volume (um <sup>3</sup> )	Total Biovolume (mm <sup>3</sup> /L)
Concentration	1 : 1	*	- 200x	- 100x			
Magnification			20	500			
Fields							

### BACILLARIOPHYCEAE

Centrales		1	0	49	200	0.00990
Nitzschia		0	1	2	400	0.00079
Pennales		1	0	49	300	0.01484
Pennales (small <20um)		2	0	99	251	0.02484

### CHLOROPHYCEAE

Ankistrodesmoideae		210	0	10391	132	1.37160
Chlorococcoids (<10um)		450	0	22266	60	1.33597

### CRYPTOPHYCEAE

Cryptomonads		1	0	49	320	0.01583
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### CYANOPHYCEAE

Pseudanabaena		0	10	20	12.5	0.00025
Synechococcales small (iauv <20)		33600	0	1662543	5.25	8.72835

### DINOPHYCEAE

Gymnodiniales		1	0	49	2000	0.09896
Gymnodiniales (small)		1	0	49	500	0.02474

### OTHER PHYTOPLANKTON

Other small flagellates		14	0	693	80	0.05542
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TOTAL BGA	1662563	8.72860
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	1696259	11.68149

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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  $\beta$ -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 Deliyiannis**  
Biologist

DATE: **28/09/2021**

METHOD NO.: MB010/MW024VCA

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