

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7609400 22-60564
LOCALITY :	EM2215131-010
SITE :	3.2km Sth of Salt Ck
SAMPLE :	Surface
DATE SAMPLED :	9/08/2022
DATE ANALYSED :	12/08/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa were observed. Current levels may mildly influence water quality.

Sedgewick-Rafter Vol.(ml)	1.0189	Toxicogenic (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>Nitzschia</i>		3	0	147	400	0.05889
<i>Pennales</i>		1	0	49	300	0.01472
<i>Pennales (small <20um)</i>		7	0	344	251	0.08622

CHLOROPHYCEAE

<i>Chlorococcoids (<10um)</i>		1280	0	62813	60	3.76877
<i>Monoraphidium (small)</i>		364	0	17862	16	0.28580

CHRYSTOPHYCEAE

<i>Other Chrysophyceae</i>		0	14	27	350	0.00962
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CRYPTOPHYCEAE

<i>Cryptomonads</i>		1	0	49	320	0.01570
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CYANOPHYCEAE

<i>Synechococcales small (iauv <20)</i>		8080	0	396506	5.25	2.08166
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DINOPHYCEAE

<i>Dinoflagellates</i>		1	0	49	20000	0.98145
<i>Gymnodiniales</i>		10	0	491	2000	0.98145
<i>Gymnodiniales (small)</i>		27	0	1325	500	0.66248
<i>Peridinales</i>		1	0	49	5000	0.24536

OTHER PHYTOPLANKTON

<i>Other small flagellates</i>		118	0	5791	80	0.46324
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TOTAL BGA	396506	2.08166
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	485502	9.65536

ANALYST: *Adam Deliyiannis (signatory)* REVIEWED: *Lauren Minett (signatory)*
Biologist Biologist

DATE: 15/08/2022

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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 Deliyiannis (signatory)** REVIEWED: **Lauren Minett (signatory)**
Biologist Biologist

DATE: **15/08/2022**

METHOD NO.: MB010/MW024VCA

Page 2 of 2