

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7484485 22-53363
LOCALITY :	EM2212384-010
SITE :	1.8km W of Salt Ck
SAMPLE :	Surface
DATE SAMPLED :	30/06/2022
DATE ANALYSED :	7/07/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + Current high levels of algae are sufficient to impair 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

<i>Amphora</i>	2	0	98	500	0.04917
<i>Nitzschia</i>	35	0	1721	400	0.68837
<i>Pennales</i>	1	0	49	300	0.01475
<i>Pennales (small <20um)</i>	5	0	246	251	0.06171

CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>	270	0	13276	132	1.75238
<i>Chlamydomonads</i>	1	0	49	250	0.01229
<i>Chlorococcoids (<10um)</i>	3780	0	185859	60	11.15154

CRYPTOPHYCEAE

<i>Cryptomonads</i>	2	0	98	320	0.03147
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CYANOPHYCEAE

<i>Planktolyngbya</i>	10	0	492	3.8	0.00187
<i>Synechococcales small (iauv <20)</i>	15540	0	764087	5.25	4.01146

DINOPHYCEAE

<i>Dinoflagellates</i>	3	0	148	20000	2.95014
<i>Gymnodiniales</i>	6	0	295	2000	0.59003
<i>Gymnodiniales (small)</i>	20	0	983	500	0.49169

OTHER PHYTOPLANKTON

<i>Other small flagellates</i>	380	0	18684	80	1.49474
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TOTAL BGA	764579	4.01332
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	986085	23.30160

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

REVIEWED: **Karen Simonsen (signatory)**
Biologist

DATE: **07/07/2022**

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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: **Kirsten Mudie (signatory)**
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Biologist

DATE: **07/07/2022**

METHOD NO.: MB010/MW024VCA

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