

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7366811 22-11365
LOCALITY :	EM2203091-017
SITE :	Salt Creek Outlet
SAMPLE :	Surface
DATE SAMPLED :	23/02/2022
DATE ANALYSED :	28/02/2022
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) Concentration Magnification Fields	1.0407 1 : 1	Toxigenic (T) or Potentially toxic (P) *	- 200x 20	- 100x 500	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um ³)	Total Biovolume (mm ³ /L)
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BACILLARIOPHYCEAE

<i>Naviculales</i>		1	0	48	1400	0.06726
<i>Nitzschia</i>		516	0	24791	400	9.91640
<i>Pennales</i>		5	0	240	300	0.07207
<i>Pennales (small <20um)</i>		1	0	48	251	0.01206

CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>		1370	0	65821	132	8.68838
<i>Chlorococcoids (<10um)</i>		1350	0	64860	60	3.89161

CHRYSTOPHYCEAE

<i>Other Chrysophyceae</i>		1	0	48	350	0.01682
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CRYPTOPHYCEAE

<i>Cryptomonads</i>		1	0	48	320	0.01537
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CYANOPHYCEAE

<i>Synechococcales small (iauv <20)</i>		14400	0	691842	5.25	3.63217
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DINOPHYCEAE

<i>Gymnodiniales</i>		1	0	48	2000	0.09609
<i>Gymnodiniales (small)</i>		1	0	48	500	0.02402

OTHER PHYTOPLANKTON

<i>Other small flagellates</i>		19	0	913	80	0.07303
<i>Raphidophytes</i>		2	0	96	7000	0.67262

TOTAL BGA	691842	3.63217
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	848851	27.17791

ANALYST: *Adam Deliyannis (signatory)* REVIEWED: *Louise Ungemach (signatory)*
Biologist Biologist

DATE: 28/02/2022

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Sedgewick-Rafter Vol.(ml)	1.0407	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							

+ 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: **Louise Ungemach (signatory)**
Biologist Biologist

DATE: **28/02/2022**