

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7064962 21-32332
LOCALITY :	EM2112381-007
SITE :	Salt Creek Outlet
SAMPLE :	Surface
DATE SAMPLED :	28/06/2021
DATE ANALYSED :	1/07/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A moderately diverse algal community was observed. Current combined levels are likely to impact water quality.

Sedgewick-Rafter Vol.(ml)	1.0138	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>		3	0	148	500	0.07398
<i>Centrales - (5-10um)</i>		1	0	49	80	0.00395
<i>Cocconeis</i>		2	0	99	450	0.04439
<i>Entomoneis</i>		0	1	2	1000	0.00197
<i>Hantzschia</i>		0	1	2	500	0.00099
<i>Nitzschia</i>		156	0	7694	400	3.07753
<i>Pennales (small <20um)</i>		10	0	493	251	0.12379

CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>		160	0	7891	132	1.04163
<i>Chlorococcoids (<10um)</i>		212	0	10456	60	0.62734

CYANOPHYCEAE

<i>Planktolyngbya</i>		7	0	345	3.8	0.00131
<i>Synechococcales small (iauv <20)</i>		34560	0	1704478	5.25	8.94851

DINOPHYCEAE

<i>Dinoflagellates</i>		0	2	4	20000	0.07891
<i>Gymnodiniales</i>		21	0	1036	2000	2.07141

OTHER PHYTOPLANKTON

<i>Other small flagellates</i>		8	0	395	80	0.03156
<i>Raphidophytes</i>		1	0	49	7000	0.34524

TOTAL BGA	1704823	8.94982
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	1733141	16.47251

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

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

DATE: **02/07/2021**

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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.