

## ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	6906819 21-12031
LOCALITY :	EM2103113-008
SITE :	1.8km West of Salt Creek
SAMPLE :	Surface
DATE SAMPLED :	24/02/2021
DATE ANALYSED :	1/03/2021
SAMPLED BY :	Sample analysed as received

**COMMENTS:** + A diverse and numerous community of algal taxa was observed. Current levels may mildly impair water quality.

Sedgewick-Rafter Vol.(ml)	1.0303	Toxigenic (T) or Potentially toxic (P)	- 200x	- 100x	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um <sup>3</sup> )	Total Biovolume (mm <sup>3</sup> /L)
Concentration	1 : 1	*	20	500			
Magnification							
Fields							

### BACILLARIOPHYCEAE

<i>Nitzschia</i>		296	0	14365	400	5.74590
<i>Pennales</i>		0	3	6	300	0.00175
<i>Pennales (small &lt;20um)</i>		2	0	97	251	0.02436

### CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>		1400	0	67941	132	8.96826
<i>Chlamydomonads</i>		1	0	49	250	0.01213
<i>Chlorococcoids (&lt;10um)</i>		1150	0	55809	60	3.34854

### CHRYSOPHYCEAE

<i>Other Chrysophyceae</i>		1	0	49	350	0.01699
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### CYANOPHYCEAE

<i>Synechococcales small (iauv &lt;20)</i>		10560	0	512472	5.25	2.69048
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### DINOPHYCEAE

<i>Dinoflagellates</i>		39	0	1893	20000	37.85305
<i>Gymnodiniales</i>		4	0	194	2000	0.38824
<i>Gymnodiniales (small)</i>		3	0	146	500	0.07279

### OTHER PHYTOPLANKTON

<i>Other small flagellates</i>		16	0	776	80	0.06212
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TOTAL BGA	512472	2.69048
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	653797	59.18461

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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.