

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	6873998 21-07778
LOCALITY :	EM2101680_016
SITE :	Salt Creek OL
SAMPLE :	Surface
DATE SAMPLED :	3/02/2021
DATE ANALYSED :	8/02/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A moderately diverse algal community was observed with small BGA and greens numerous. Water quality may be mildly impaired.

Sedgewick-Rafter Vol.(ml)	1.0274	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>Naviculales</i>		0	1	2	1400	0.00273
<i>Nitzschia</i>		260	0	12653	400	5.06132
<i>Pennales (small <20um)</i>		2	0	97	251	0.02443

CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>		660	0	32120	132	4.23983
<i>Chlorococcoids (<10um)</i>		1680	0	81760	60	4.90559

CRYPTOPHYCEAE

<i>Cryptomonads</i>		1	0	49	320	0.01557
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CYANOPHYCEAE

<i>Spirulina</i>		0	196	382	5.73	0.00219
<i>Synechococcales small (iauv <20)</i>		7620	0	370839	5.25	1.94690

DINOPHYCEAE

<i>Dinoflagellates</i>		35	0	1703	20000	34.06658
<i>Gymnodiniales (small)</i>		5	0	243	500	0.12167

OTHER PHYTOPLANKTON

<i>Other small flagellates</i>		360	0	17520	80	1.40160
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TOTAL BGA	371221	1.94909
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	517368	51.78839

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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.