

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6681713 20-40763
LOCALITY :	EM2014780-009
SITE :	3.2km South of Salt Creek
SAMPLE :	Surface
DATE SAMPLED :	26/08/2020
DATE ANALYSED :	31/08/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed. Current excessive levels of small BGA and greens will impair water quality.

Sedgewick-Rafter Vol.(ml)	1.0199	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>Navicula</i>		1	0	49	1400	0.06863
<i>Nitzschia</i>		50	0	2451	400	0.98049
<i>Pennales</i>		0	1	2	300	0.00059

CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>		136	0	6667	132	0.88009
<i>Chlorococcoids (<10um)</i>		7680	0	376508	60	22.59045

CRYPTOPHYCEAE

<i>Cryptomonads</i>		9	0	441	320	0.14119
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CYANOPHYCEAE

<i>Planktolyngbya</i>		39	0	1912	3.8	0.00727
<i>Synechococcales small (iauv <20)</i>		27200	0	1333464	5.25	7.00069

DINOPHYCEAE

<i>Dinoflagellates</i>		1	0	49	20000	0.98049
<i>Gymnodiniales</i>		1	0	49	2000	0.09805
<i>Gymnodiniales (small)</i>		44	0	2157	500	1.07854
<i>Peridinales</i>		2	0	98	5000	0.49024

OTHER PHYTOPLANKTON

<i>Other small flagellates</i>		12	0	588	80	0.04706
<i>Prasinophytes</i>		5	0	245	100	0.02451

TOTAL BGA	1335376	7.00795
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	1724680	34.38828

ANALYST: *Adam Deliyannis*
Biologist

REVIEWED: *Kirsten Mudie (signatory)*
Biologist

DATE: **31/08/2020**

METHOD NO.: MB010/MW024CV

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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.