

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7064964 21-32332
LOCALITY :	EM2112381-009
SITE :	3.2km Sth of Salt Ck
SAMPLE :	Surface
DATE SAMPLED :	28/06/2021
DATE ANALYSED :	5/07/2021
SAMPLED BY :	Sample analysed as received

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

Sedgewick-Rafter Vol.(ml)	1.0327	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>Entomoneis</i>		0	1	2	1000	0.00194
<i>Naviculales</i>		1	0	48	1400	0.06778
<i>Nitzschia</i>		84	0	4067	400	1.62680
<i>Pennales</i>		1	0	48	300	0.01453
<i>Pennales (small <20um)</i>		2	0	97	251	0.02431

CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>		200	0	9683	132	1.27820
<i>Chlorococcoids (<10um)</i>		240	0	11620	60	0.69720

CHRYSOPHYCEAE

<i>Other Chrysophyceae</i>		4	0	194	350	0.06778
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CYANOPHYCEAE

<i>Synechococcales small (iauv <20)</i>		20080	0	972209	5.25	5.10410
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DINOPHYCEAE

<i>Dinoflagellates</i>		0	2	4	20000	0.07747
<i>Gymnodiniales</i>		1	0	48	2000	0.09683
<i>Gymnodiniales (small)</i>		6	0	291	500	0.14525
<i>Peridinales</i>		0	1	2	5000	0.00968

OTHER PHYTOPLANKTON

<i>Other small flagellates</i>		18	0	872	80	0.06972
<i>Prasinophytes</i>		2	0	97	100	0.00968
<i>Raphidophytes</i>		0	2	4	7000	0.02711

ANALYST: *Adam Deliyiannis*
Biologist

REVIEWED: *Kirsten Mudie (signatory)*
Biologist

DATE: **05/07/2021**

METHOD NO.: MB010/MW024VCA

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Sedgewick-Rafter Vol.(ml)	1.0327	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							

TOTAL BGA	972209	5.10410
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	999286	9.31839

+ 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**
Biologist

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