

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7545132 22-57032
LOCALITY :	EM2213883-005
SITE :	Bonneys
SAMPLE :	Surface
DATE SAMPLED :	20/07/2022
DATE ANALYSED :	25/07/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A moderately diverse community of algal taxa were observed. Current levels are unlikely to influence water quality.

Sedgewick-Rafter Vol.(ml)	1.0744	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

Naviculales	0	5	9	1400	0.01303
Pennales	0	3	6	300	0.00168
Pennales (small <20um)	2	0	93	251	0.02336

CHLOROPHYCEAE

Chlamydomonads	3	0	140	250	0.03490
Chlorococcoids (<10um)	5	0	233	60	0.01396

CYANOPHYCEAE

Synechococcales small (iauv <20)	600	0	27923	5.25	0.14659
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OTHER PHYTOPLANKTON

Other small flagellates	9	0	419	80	0.03351
Prasinophytes	4	0	186	100	0.01862

TOTAL BGA	27923	0.14659
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	29009	0.28565

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

DATE: **26/07/2022**

METHOD NO.: MB010/MW024VCA

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