

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7328732 22-06265
LOCALITY :	EM2201088-003
SITE :	Bonneys
SAMPLE :	Surface
DATE SAMPLED :	21/01/2022
DATE ANALYSED :	1/02/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + Current algal levels may mildly influence 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 (um ³)	Total Biovolume (mm ³ /L)
Concentration	1 : 1	*	20	500			
Magnification							
Fields							

BACILLARIOPHYCEAE

Centrales		0	1	2	200	0.00039
Chaetoceros		60	0	2941	200	0.58829
Naviculales		13	0	637	1400	0.89224
Nitzschia		2	0	98	400	0.03922
Pennales (small <20um)		120	0	5883	251	1.47662
Pleurosigma		2	0	98	2000	0.19610

CHLOROPHYCEAE

Chlorococcoids (<10um)		64	0	3138	60	0.18825
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CRYPTOPHYCEAE

Cryptomonads		1	0	49	320	0.01569
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CYANOPHYCEAE

Synechococcales small (iauv <20)		1550	0	75988	5.25	0.39894
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OTHER PHYTOPLANKTON

Other small flagellates		12	0	588	80	0.04706
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TOTAL BGA	75988	0.39894
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	89422	3.84280

+ 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: **Kirsten Mudie (signatory)**
Biologist

REVIEWED: **Adam Deliyiannis (signatory)**
Biologist

DATE: **01/02/2022**

METHOD NO.: MB010/MW024VCA

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