

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7241909 21-55807
LOCALITY :	EM2123012-010
SITE :	Noonameena
SAMPLE :	Surface
DATE SAMPLED :	17/11/2021
DATE ANALYSED :	22/11/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + Current low levels of algae are unlikely to influence water quality.

Sedgewick-Rafter Vol.(ml)	1.0384	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 - (5-10um)		1	0	48	80	0.00385
Chaetoceros		1	0	48	200	0.00963
Licmophora		0	1	2	850	0.00164
Naviculales		1	0	48	1400	0.06741
Nitzschia		1	0	48	400	0.01926
Pennales		1	0	48	300	0.01445
Pennales (small <20um)		1	0	48	251	0.01209

CHLOROPHYCEAE

Chlorococcoids (<10um)		2	0	96	60	0.00578
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CRYPTOPHYCEAE

Cryptomonads		1	0	48	320	0.01541
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CYANOPHYCEAE

Synechococcales small (iauv <20)		5	0	241	5.25	0.00126
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EUGLENOPHYCEAE

Eutreptia		12	0	578	1000	0.57781
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OTHER PHYTOPLANKTON

Other small flagellates		2	0	96	80	0.00770
Prasinophytes		37	0	1782	100	0.17816

TOTAL BGA	241	0.00126
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	3131	0.91445

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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.

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

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

DATE: **23/11/2021**