

## ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7428774 22-19601
LOCALITY :	EM2207234-006
SITE :	Noonameena
SAMPLE :	Surface
DATE SAMPLED :	20/04/2022
DATE ANALYSED :	26/04/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + Current algal levels are unlikely to impair water quality.

Sedgewick-Rafter Vol.(ml)	1.024	Toxigenic (T) or Potentially toxic (P)			Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
Concentration	1 : 1	*	- 200x	- 100x			
Magnification			20	500			
Fields							

### BACILLARIOPHYCEAE

Centrales - (5-10um)		11	0	537	80	0.04297
Naviculales		5	0	244	1400	0.34180
Nitzschia		1	0	49	400	0.01953
Pennales		35	0	1709	300	0.51270
Pennales (small <20um)		9	0	439	251	0.11030

### CHLOROPHYCEAE

Botryococcus		0	20	39	98	0.00383
Chlorococcoids (<10um)		6	0	293	60	0.01758
Monoraphidium (small)		5	0	244	16	0.00391

### CRYPTOPHYCEAE

Cryptomonads		2	0	98	320	0.03125
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### CYANOPHYCEAE

Limnithrix/Geitlerinema/Anagnostidinema	P	0	56	109	17.5	0.00191
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### OTHER PHYTOPLANKTON

Other small flagellates		3	0	146	80	0.01172
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TOTAL BGA	109	0.00191
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	109	0.00191
TOTAL ALGAE	3907	1.09749

+ 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  $\beta$ -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 Deliyannis (signatory)**  
Biologist

DATE: **26/04/2022**

METHOD NO.: MB010/MW024VCA

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