

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	239331 22-48115
LOCALITY :	EM2210354-004
SITE :	Noonameena
SAMPLE :	Surface
DATE SAMPLED :	1/06/2022
DATE ANALYSED :	12/06/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + Current levels are unlikely to impact water quality.

Sedgewick-Rafter Vol.(ml)	1.0046	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

Centrales		2	0	100	200	0.01991
Naviculales		3	0	149	1400	0.20904
Pennales		2	0	100	300	0.02986
Pleurosigma		0	1	2	2000	0.00398

CHLOROPHYCEAE

Ankistrodesmoideae		46	0	2289	132	0.30221
Chlorococcoids (<10um)		54	0	2688	60	0.16126
Monoraphidium (small)		6	0	299	16	0.00478

CYANOPHYCEAE

Oscillatoriales (iauv 1-100)	P	0	19	38	60.8	0.00230
Planktolyngbya		15	0	747	3.8	0.00284

OTHER PHYTOPLANKTON

Other small flagellates		2	0	100	80	0.00796
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TOTAL BGA	785	0.00514
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	38	0.00230
TOTAL ALGAE	6512	0.74414

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

DATE: **14/06/2022**