

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7366800 22-11365
LOCALITY :	EM2203091-006
SITE :	Noonameena
SAMPLE :	Surface
DATE SAMPLED :	22/02/2022
DATE ANALYSED :	28/02/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse range of algal taxa were observed. Current levels are unlikely to impact water quality.

Sedgewick-Rafter Vol.(ml)	1.0327	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

<i>Chaetoceros</i>		3	0	145	200	0.02905
<i>Pennales</i>		3	0	145	300	0.04358
<i>Pennales (small <20um)</i>		2	0	97	251	0.02431

CHLOROPHYCEAE

<i>Chlorococcoids</i>		15	0	726	500	0.36313
<i>Monoraphidium (small)</i>		1	0	48	16	0.00077

CYANOPHYCEAE

<i>Synechococcales small (iauv <20)</i>		11	0	533	5.25	0.00280
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DINOPHYCEAE

<i>Dinoflagellates</i>		1	0	48	20000	0.96834
<i>Gymnodiniales</i>		1	0	48	2000	0.09683

OTHER PHYTOPLANKTON

<i>Other small flagellates</i>		8	0	387	80	0.03099
<i>Prasinophytes</i>		1	0	48	100	0.00484

TOTAL BGA	533	0.00280
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	2225	1.56462

+ 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: 28/02/2022