

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7484481 22-53363
LOCALITY :	EM2212384-006
SITE :	North Jacks Point
SAMPLE :	Surface
DATE SAMPLED :	30/06/2022
DATE ANALYSED :	6/07/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + Current high levels of algae are sufficient to impair water quality.

Sedgewick-Rafter Vol.(ml)	1.0235	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		1	0	49	200	0.00977
Chaetoceros		20	0	977	200	0.19541
Pennales		2	0	98	300	0.02931
Pennales (small <20um)		33	0	1612	251	0.40464

CHLOROPHYCEAE

Ankistrodesmoideae		720	0	35173	132	4.64289
Chlamydomonads		9	0	440	250	0.10992
Chlorococcoids (<10um)		4480	0	218857	60	13.13141
Monoraphidium (small)		100	0	4885	16	0.07816

CHRYSTOPHYCEAE

Other Chrysophyceae		1	0	49	350	0.01710
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CRYPTOPHYCEAE

Cryptomonads		1	0	49	320	0.01563
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CYANOPHYCEAE

Planktolyngbya		30	0	1466	3.8	0.00557
Synechococcales small (iauv <20)		16800	0	820713	5.25	4.30874

DINOPHYCEAE

Dinoflagellates		0	1	2	20000	0.03908
Gymnodiniales		11	0	537	2000	1.07474
Gymnodiniales (small)		14	0	684	500	0.34196

OTHER PHYTOPLANKTON

Other small flagellates		1960	0	95750	80	7.65999
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ANALYST: **Kirsten Mudie (signatory)**
Biologist

REVIEWED: **Natalie Alabaster**
Biologist

DATE: **07/07/2022**

METHOD NO.: MB010/MW024VCA

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Sedgewick-Rafter Vol.(ml)	1.0235	Toxigenic (T) or Potentially toxic (P)					
Concentration	1 : 1	*	- 200x	- 100x	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
Magnification			20	500			
Fields							

TOTAL BGA	822179	4.31431
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	1181341	32.06434

+ 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.

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Biologist

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