

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7548889 22-57206
LOCALITY :	EM2213882-006
SITE :	North Jacks Point
SAMPLE :	Surface
DATE SAMPLED :	21/07/2022
DATE ANALYSED :	26/07/2022
SAMPLED BY :	Sample analysed as received

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

Sedgewick-Rafter Vol.(ml)	1.0169	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>Naviculales</i>	0	1	2	1400	0.00275
<i>Nitzschia</i>	2	0	98	400	0.03934
<i>Pennales</i>	3	0	148	300	0.04425

CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>	118	0	5802	132	0.76586
<i>Chlorococcoids (<10um)</i>	872	0	42875	60	2.57252
<i>Monoraphidium (small)</i>	16	0	787	16	0.01259

CRYPTOPHYCEAE

<i>Cryptomonads</i>	0	3	6	320	0.00189
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CYANOPHYCEAE

<i>Planktolyngbya</i>	15	0	738	3.8	0.00280
<i>Synechococcales small (iauv <20)</i>	6200	0	304848	5.25	1.60045

DINOPHYCEAE

<i>Gymnodiniales</i>	3	0	148	2000	0.29501
<i>Gymnodiniales (small)</i>	13	0	639	500	0.31960

OTHER PHYTOPLANKTON

<i>Other small flagellates</i>	660	0	32452	80	2.59613
<i>Raphidophytes</i>	0	1	2	7000	0.01377

TOTAL BGA	305586	1.60325
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	388545	8.26696

ANALYST: *Adam Deliyiannis (signatory)* REVIEWED: *Louise Ungemach (signatory)*
Biologist Biologist

DATE: 27/07/2022

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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: **Adam Deliyannis (signatory)** REVIEWED: **Louise Ungemach (signatory)**
Biologist Biologist

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