

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7548888 22-57206
LOCALITY :	EM2213882-005
SITE :	Stony Well
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 may impact water quality.

Sedgewick-Rafter Vol.(ml)	1.0116	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	1	0	49	200	0.00989
Nitzschia	4	0	198	400	0.07908
Pennales	1	0	49	300	0.01483

CHLOROPHYCEAE

Ankistrodesmoideae	1015	0	50168	132	6.62218
Chlorococcoids (<10um)	1740	0	86002	60	5.16014
Monoraphidium (small)	3	0	148	16	0.00237

CRYPTOPHYCEAE

Cryptomonads	1	0	49	320	0.01582
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CYANOPHYCEAE

Planktolyngbya	25	0	1236	3.8	0.00470
Synechococcales small (iauv <20)	615	0	30397	5.25	0.15959

DINOPHYCEAE

Gymnodiniales	6	0	297	2000	0.59312
Gymnodiniales (small)	17	0	840	500	0.42013
Peridinales	1	0	49	5000	0.24713

OTHER PHYTOPLANKTON

Other small flagellates	40	0	1977	80	0.15817
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TOTAL BGA	31633	0.16428
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	171459	13.48714

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)**
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