

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7328745 22-06265
LOCALITY :	EM2201088-016
SITE :	Stoney Well
SAMPLE :	Surface
DATE SAMPLED :	20/01/2022
DATE ANALYSED :	2/02/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + Excessive algal levels may impair water quality.

Sedgewick-Rafter Vol.(ml)	1.02723	Toxicogenic (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

<i>Amphora</i>	1	0	49	500	0.02434
<i>Nitzschia</i>	356	0	17328	400	6.93126
<i>Pennales</i>	2	0	97	300	0.02920
<i>Pennales (small <20um)</i>	22	0	1071	251	0.26878
<i>Pleurosigma</i>	0	1	2	2000	0.00389

CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>	3040	0	147971	132	19.53214
<i>Chlorococcoids (<10um)</i>	5140	0	250187	60	15.01124

CRYPTOPHYCEAE

<i>Cryptomonads</i>	1	0	49	320	0.01558
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CYANOPHYCEAE

<i>Synechococcales small (iauv <20)</i>	11860	0	577281	5.25	3.03072
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DINOPHYCEAE

<i>Dinoflagellates</i>	1	0	49	20000	0.97349
<i>Gymnodiniales</i>	42	0	2044	2000	4.08867

EUGLENOPHYCEAE

<i>Trachelomonas</i>	1	0	49	3000	0.14602
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OTHER PHYTOPLANKTON

<i>Raphidophytes</i>	2	0	97	7000	0.68144
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TOTAL BGA	577281	3.03072
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	996274	50.73679

ANALYST: *Adam Deliyannis (signatory)* REVIEWED: *Kirsten Mudie (signatory)*
Biologist Biologist

DATE: 02/02/2022

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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: *Kirsten Mudie (signatory)*
Biologist Biologist

DATE: **02/02/2022**