

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7484480 22-53363
LOCALITY :	EM2212384-005
SITE :	Stony Well
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)	1.027	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>		0	1	2	500	0.00097
<i>Chaetoceros</i>		44	0	2142	200	0.42843
<i>Nitzschia</i>		116	0	5648	400	2.25901
<i>Pennales</i>		0	1	2	300	0.00058
<i>Pennales (small <20um)</i>		28	0	1363	251	0.34216

CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>		5560	0	270691	132	35.73126
<i>Chlamydomonads</i>		12	0	584	250	0.14606
<i>Chlorococcoids (<10um)</i>		5880	0	286271	60	17.17624
<i>Monoraphidium (small)</i>		160	0	7790	16	0.12463

CRYPTOPHYCEAE

<i>Cryptomonads</i>		2	0	97	320	0.03116
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CYANOPHYCEAE

<i>Planktolyngbya</i>		144	0	7011	3.8	0.02664
<i>Pseudanabaena</i>		0	8	16	12.5	0.00019
<i>Synechococcales small (iauv <20)</i>		47600	0	2317429	5.25	12.16650

DINOPHYCEAE

<i>Dinoflagellates</i>		1	0	49	20000	0.97371
<i>Gymnodiniales</i>		6	0	292	2000	0.58423
<i>Gymnodiniales (small)</i>		15	0	730	500	0.36514

OTHER PHYTOPLANKTON

<i>Other small flagellates</i>		160	0	7790	80	0.62317
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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)	1.027	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							

TOTAL BGA	2324456	12.19334
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	2907907	70.98010

+ 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: **Kirsten Mudie (signatory)**
Biologist

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