

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7064956 21-32332
LOCALITY :	EM2112381-001
SITE :	Stony Well
SAMPLE :	Surface
DATE SAMPLED :	28/06/2021
DATE ANALYSED :	1/07/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A moderately diverse algal community was observed. Current combined levels are likely to impair water quality.

Sedgewick-Rafter Vol.(ml)	1.0018	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

<i>Amphora</i>		0	7	14	500	0.00699
<i>Cocconeis</i>		0	1	2	450	0.00090
<i>Grammatophora</i>		0	1	2	2000	0.00399
<i>Hantzschia</i>		0	1	2	500	0.00100
<i>Nitzschia</i>		32	0	1597	400	0.63885
<i>Pennales (small <20um)</i>		15	0	749	251	0.18791

CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>		296	0	14773	132	1.95009
<i>Chlamydomonads</i>		4	0	200	250	0.04991
<i>Chlorococcoids (<10um)</i>		288	0	14374	60	0.86245

CYANOPHYCEAE

<i>Planktolyngbya</i>		10	0	499	3.8	0.00190
<i>Synechococcales small (iauv <20)</i>		25920	0	1293671	5.25	6.79177

DINOPHYCEAE

<i>Gymnodiniales (small)</i>		18	0	898	500	0.44919
<i>Peridinales</i>		0	1	2	5000	0.00998

OTHER PHYTOPLANKTON

<i>Other small flagellates</i>		9	0	449	80	0.03594
<i>Raphidophytes</i>		3	0	150	7000	1.04811

TOTAL BGA	1294170	6.79367
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	1327382	12.03898

ANALYST: **Karen Simonsen (signatory)**
Biologist

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

DATE: **05/07/2021**

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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.