

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	6781623 20-54272
LOCALITY :	EM2020558_014
SITE :	Snipe Point
SAMPLE :	Surface
DATE SAMPLED :	18/11/2020
DATE ANALYSED :	23/11/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse algal community was observed with low biovolume BGA dominating the sample. Water quality will be impaired.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.027 1 : 1	Toxicogenic (T) or Potentially toxic (P) *	- 200x 20	- 100x 500	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um ³)	Total Biovolume (mm ³ /L)
BACILLARIOPHYCEAE							
<i>Centrales</i>			2	0	97	200	0.01947
<i>Nitzschia</i>			0	7	14	400	0.00545
<i>Pennales</i>			0	3	6	300	0.00175
<i>Pennales (small <20um)</i>			30	0	1461	251	0.36660
CHLOROPHYCEAE							
<i>Ankistrodesmoideae</i>			880	0	42843	132	5.65531
<i>Chlorococcoids (<10um)</i>			3920	0	190847	60	11.45083
CHRYSTOPHYCEAE							
<i>Other Chrysophyceae</i>			7	0	341	350	0.11928
CRYPTOPHYCEAE							
<i>Cryptomonads</i>			1	0	49	320	0.01558
CYANOPHYCEAE							
<i>Oscillatoriales (iauv 1-100)</i>	P		0	67	130	60.8	0.00793
<i>Synechococcales small (iauv <20)</i>			42880	0	2087634	5.25	10.96008
DINOPHYCEAE							
<i>Dinoflagellates</i>			1	0	49	20000	0.97371
<i>Gymnodiniales</i>			2	0	97	2000	0.19474
<i>Gymnodiniales (small)</i>			12	0	584	500	0.29211
<i>Peridinales</i>			2	0	97	5000	0.48685
OTHER PHYTOPLANKTON							
<i>Other small flagellates</i>			5	0	243	80	0.01947
<i>Prasinophytes</i>			1	0	49	100	0.00487

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

REVIEWED: **Adam Deliyannis**
Biologist

DATE: **23/11/2020**

METHOD NO.: MB010/MW024VCA

Page 1 of 2

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	6781623 20-54272
LOCALITY :	EM2020558_014
SITE :	Snipe Point
SAMPLE :	Surface
DATE SAMPLED :	18/11/2020
DATE ANALYSED :	23/11/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse algal community was observed with low biovolume BGA dominating the sample. Water quality will be impaired.

Sedgewick-Rafter Vol.(ml)	1.027	Toxigenic (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							

TOTAL BGA	2087764	10.96801
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	130	0.00793
TOTAL ALGAE	2324541	30.57405

+ 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

REVIEWED: **Adam Deliyiannis**
Biologist

DATE: **23/11/2020**

METHOD NO.: MB010/MW024VCA

Page 2 of 2