

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6722406 20-45935
LOCALITY :	EM2017172-004
SITE :	Snipe Point
SAMPLE :	Surface
DATE SAMPLED :	30/09/2020
DATE ANALYSED :	7/10/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed with small greens and low biovolume BGA most numerous. Current combined levels are likely to impair water quality.

Sedgewick-Rafter Vol.(ml)	1.0018	Toxicogenic (T) or Potentially toxic (P) *	- 200x 20	- 100x 500	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
Concentration	1 : 1						
Magnification							
Fields							

BACILLARIOPHYCEAE

<i>Naviculales</i>		1	0	50	1400	0.06987
<i>Nitzschia</i>		50	0	2496	400	0.99820
<i>Pennales (small <20um)</i>		1	0	50	251	0.01253

CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>		263	0	13126	132	1.73268
<i>Chlorococcoids (<10um)</i>		1860	0	92833	60	5.56997

CHRYSOPHYCEAE

<i>Other Chrysophyceae</i>		1	0	50	350	0.01747
----------------------------	--	---	---	----	-----	---------

CRYPTOPHYCEAE

<i>Cryptomonads</i>		6	0	299	320	0.09583
---------------------	--	---	---	-----	-----	---------

CYANOPHYCEAE

<i>Planktolyngbya</i>		12	0	599	3.8	0.00228
<i>Pseudanabaena</i>		0	26	52	12.5	0.00065
<i>Synechococcales small (iauv <20)</i>		18080	0	902376	5.25	4.73747

DINOPHYCEAE

<i>Dinoflagellates</i>		2	0	100	20000	1.99641
<i>Gymnodiniales</i>		1	0	50	2000	0.09982
<i>Gymnodiniales (small)</i>		17	0	848	500	0.42424
<i>Peridinales</i>		3	0	150	5000	0.74865

OTHER PHYTOPLANKTON

<i>Other small flagellates</i>		410	0	20463	80	1.63705
--------------------------------	--	-----	---	-------	----	---------

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6722406 20-45935
LOCALITY :	EM2017172-004
SITE :	Snipe Point
SAMPLE :	Surface
DATE SAMPLED :	30/09/2020
DATE ANALYSED :	7/10/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed with small greens and low biovolume BGA most numerous. 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 (um ³)	Total Biovolume (mm ³ /L)
Concentration	1 : 1	*	20	500			
Magnification							
Fields							

TOTAL BGA	903027	4.74040
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	1033542	18.14312

+ 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 Deliyiannis**
Biologist

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

DATE: **07/10/2020**

METHOD NO.: MB010/MW024CV

Page 2 of 2