

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	6906815 21-12031
LOCALITY :	EM2103113_004
SITE :	Snipe Point
SAMPLE :	Surface
DATE SAMPLED :	24/02/2021
DATE ANALYSED :	1/03/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse algal community was observed with low biovolume BGA abundant. Water quality may be impaired.

Sedgewick-Rafter Vol.(ml)	1.0145	Toxicogenic (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							

BACILLARIOPHYCEAE

Centrales		1	0	49	200	0.00986
Naviculales		0	1	2	1400	0.00276
Nitzschia		376	0	18531	400	7.41252
Pennales		3	0	148	300	0.04436
Pennales (small <20um)		1	0	49	251	0.01237

CHLOROPHYCEAE

Ankistrodesmoideae		760	0	37457	132	4.94431
Chlamydomonads		1	0	49	250	0.01232
Chlorococcoids (<10um)		1280	0	63085	60	3.78512

CHRYSTOPHYCEAE

Other Chrysophyceae		2	0	99	350	0.03450
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CRYPTOPHYCEAE

Cryptomonads		4	0	197	320	0.06309
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CYANOPHYCEAE

Synechococcales small (iauv <20)		5920	0	291769	5.25	1.53179
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DINOPHYCEAE

Dinoflagellates		32	0	1577	20000	31.54263
Gymnodiniales (small)		11	0	542	500	0.27107
Peridinales		1	0	49	5000	0.24643

OTHER PHYTOPLANKTON

Prasinophytes		1	0	49	100	0.00493
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Sedgewick-Rafter Vol.(ml)	1.0145	Toxigenic (T) or Potentially toxic (P)	- 200x	- 100x	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um ³)	Total Biovolume (mm ³ /L)
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TOTAL BGA	291769	1.53179
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	413652	49.91804

+ 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 Deliyannis**
Biologist

DATE: **02/03/2021**

METHOD NO.: MB010/MW024VCA

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