

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	6956317 21-18638
LOCALITY :	EM2106129_014
SITE :	Snipe Point
SAMPLE :	Surface
DATE SAMPLED :	7/04/2021
DATE ANALYSED :	13/04/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A moderately diverse algal community was present in levels that may mildly 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

Centrales		1	0	50	200	0.00998
Nitzschia		150	0	7487	400	2.99461

CHLOROPHYCEAE

Ankistrodesmoideae		200	0	9982	132	1.31763
Ankistrodesmus		1	0	50	132	0.00659
Carteria		1	0	50	300	0.01497
Chlorococcoids (<10um)		980	0	48912	60	2.93472
Selenastrum		1	0	50	250	0.01248

CRYPTOPHYCEAE

Cryptomonads		4	0	200	320	0.06389
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CYANOPHYCEAE

Spirulina		0	65	130	5.73	0.00074
Synechococcales small (iauv <20)		920	0	45917	5.25	0.24107

DINOPHYCEAE

Dinoflagellates		19	0	948	20000	18.96586
Gymnodiniales (small)		3	0	150	500	0.07487

OTHER PHYTOPLANKTON

Other small flagellates		3	0	150	80	0.01198
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TOTAL BGA	46047	0.24181
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	114076	26.64938

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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.

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

REVIEWED: **Lauren Minett (signatory)**
Biologist

DATE: **15/04/2021**

METHOD NO.: MB010/MW024VCA

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