

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	6933866 21-15798
LOCALITY :	EM2104707_003
SITE :	South Policeman Point
SAMPLE :	Surface
DATE SAMPLED :	17/03/2021
DATE ANALYSED :	23/03/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + Excessive levels of low biovolume BGA were observed, sufficient to impair water quality. High levels of greens and diatoms were also present.

Sedgewick-Rafter Vol.(ml)	1.0168	Toxicogenic (T) or Potentially toxic (P)			Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
Concentration	1 : 1	*	- 200x	- 100x			
Magnification			20	500			
Fields							

BACILLARIOPHYCEAE

Centrales		1	0	49	200	0.00983
Nitzschia		330	0	16227	400	6.49095
Pennales		1	0	49	300	0.01475

CHLOROPHYCEAE

Ankistrodesmoideae		1300	0	63926	132	8.43824
Chlorococcoids (<10um)		880	0	43273	60	2.59638

CRYPTOPHYCEAE

Cryptomonads		2	0	98	320	0.03147
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CYANOPHYCEAE

Oscillatoriales (iauv 1-100)	P	0	250	492	60.8	0.02990
Synechococcales small (iauv <20)		6600	0	324548	5.25	1.70387

DINOPHYCEAE

Dinoflagellates		25	0	1229	20000	24.58694
Gymnodiniales (small)		4	0	197	500	0.09835

OTHER PHYTOPLANKTON

Other small flagellates		240	0	11802	80	0.94414
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TOTAL BGA	325040	1.73377
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	492	0.02990
TOTAL ALGAE	461890	44.94483

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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.