

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7241904 21-55807
LOCALITY :	EM2123012-005
SITE :	Mark Point
SAMPLE :	Surface
DATE SAMPLED :	17/11/2021
DATE ANALYSED :	23/11/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A highly diverse community of algal taxa was observed. Current levels are unlikely to impact water quality.

Sedgewick-Rafter Vol.(ml)	1.036	Toxicogenic (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		2	0	97	200	0.01931
Chaetoceros		235	0	11342	200	2.26834
Pennales (small <20um)		1	0	48	251	0.01211

CHLOROPHYCEAE

Ankistrodesmoideae		6	0	290	132	0.03822
Ankistrodesmus		2	0	97	132	0.01274
Chlorococcoids (<10um)		9	0	434	60	0.02606
Colonial green (cells)		4	0	193	100	0.01931
Crucigenia		32	0	1544	30	0.04633
Lagerheimia		2	0	97	500	0.04826
Monoraphidium		1	0	48	900	0.04344
Oocystis		6	0	290	300	0.08687
Planctonema		23	0	1110	800	0.88803
Tetraedron		1	0	48	150	0.00724

CYANOPHYCEAE

Limnolyngbya (Planktolyngbya circumcreta)		39	0	1882	4.9	0.00922
Planktolyngbya		15	0	724	3.8	0.00275
Pseudanabaena		19	0	917	12.5	0.01146
Synechococcales small (iauv <20)		148	0	7143	5.25	0.03750

DINOPHYCEAE

Gymnodiniales		1	0	48	2000	0.09653
Gymnodiniales (small)		1	0	48	500	0.02413

OTHER PHYTOPLANKTON

Other small flagellates		7	0	338	80	0.02703
Prasinophytes		2	0	97	100	0.00965

ANALYST: *Adam Deliyannis (signatory)* REVIEWED: *Kirsten Mudie (signatory)*
Biologist Biologist

DATE: **23/11/2021**

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TOTAL BGA	10666	0.06094
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	26835	3.73454

+ 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.

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Biologist Biologist

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