

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	6796589 20-56146
LOCALITY :	EM2021368_014
SITE :	Long Point
SAMPLE :	Surface
DATE SAMPLED :	1/12/2020
DATE ANALYSED :	3/12/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A moderately diverse algal community was observed with current levels unlikely to influence water quality.

Sedgewick-Rafter Vol.(ml)	1.027	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

<i>Amphora</i>		1	0	49	500	0.02434
<i>Chaetoceros</i>		14	0	682	200	0.13632
<i>Cocconeis</i>		1	0	49	450	0.02191
<i>Entomoneis</i>		0	1	2	1000	0.00195
<i>Naviculales</i>		1	0	49	1400	0.06816
<i>Nitzschia</i>		1	0	49	400	0.01947
<i>Pennales (small <20um)</i>		2	0	97	251	0.02444

CHLOROPHYCEAE

<i>Chlorococcoids (<10um)</i>		4	0	195	60	0.01168
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CRYPTOPHYCEAE

<i>Cryptomonads</i>		1	0	49	320	0.01558
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CYANOPHYCEAE

<i>Limnithrix/Geitlerinema/Anagnostidinema</i>	P	0	45	88	17.5	0.00153
<i>Synechococcales small (iauv <20)</i>		6	0	292	5.25	0.00153

OTHER PHYTOPLANKTON

<i>Other small flagellates</i>		1	0	49	80	0.00389
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TOTAL BGA	380	0.00307
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	88	0.00153
TOTAL ALGAE	1650	0.33082

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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: **Adam Deliyannis**
Biologist

DATE: **04/12/2020**

METHOD NO.: MB010/MW024VCA

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