

## ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	187809 22-45580
LOCALITY :	EM2209350-005
SITE :	Long Point
SAMPLE :	Surface
DATE SAMPLED :	18/05/2022
DATE ANALYSED :	24/05/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa were observed. Current levels are unlikely to influence water quality.

Sedgewick-Rafter Vol.(ml)	1.0744	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

<i>Pennales</i>		1	0	47	300	0.01396
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### CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>		13	0	605	132	0.07986
<i>Chlorococcoids (&lt;10um)</i>		6	0	279	60	0.01675
<i>Crucigenia</i>		4	0	186	30	0.00558
<i>Lagerheimia</i>		1	0	47	500	0.02327
<i>Monoraphidium (small)</i>		29	0	1350	16	0.02159
<i>Oocystis</i>		7	0	326	300	0.09773
<i>Pediastrum</i>		8	0	372	60	0.02234
<i>Planctonema</i>		16	0	745	800	0.59568
<i>Scenedesmus</i>		4	0	186	250	0.04654
<i>Tetraedron</i>		1	0	47	150	0.00698

### CRYPTOPHYCEAE

<i>Cryptomonads</i>		62	0	2885	320	0.92331
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### CYANOPHYCEAE

<i>Planktolyngbya</i>		20	0	931	3.8	0.00354
<i>Synechococcales small (iauv &lt;20)</i>		12	0	558	5.25	0.00293

TOTAL BGA	1489	0.00647
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	8564	1.86006

ANALYST: *Adam Deliyannis (signatory)* REVIEWED: *Louise Ungemach (signatory)*  
Biologist Biologist

DATE: 25/05/2022

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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  $\beta$ -N-methylamino-L-alanine (BMAA) and its analogues. Therefore all cyanobacteria could be considered to pose a level of risk.

ANALYST: **Adam Deliyannis (signatory)** REVIEWED: **Louise Ungemach (signatory)**  
Biologist Biologist

DATE: **25/05/2022**