

## ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	6906830 21-12031
LOCALITY :	EM2103113_019
SITE :	Parnka Point
SAMPLE :	Surface
DATE SAMPLED :	25/02/2021
DATE ANALYSED :	1/03/2021
SAMPLED BY :	Sample analysed as received

**COMMENTS:** + A diverse algal community was observed with low biovolume BGA abundant. Water quality may be impaired.

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

<i>Amphora</i>		1	0	50	500	0.02496
<i>Centrales</i>		9	0	449	200	0.08984
<i>Centrales - (5-10um)</i>		6	0	299	80	0.02396
<i>Nitzschia</i>		1	0	50	400	0.01996
<i>Pennales</i>		6	0	299	300	0.08984
<i>Pennales (small &lt;20um)</i>		40	0	1996	251	0.50110

### CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>		145	0	7237	132	0.95528
<i>Chlamydomonads</i>		1	0	50	250	0.01248
<i>Chlorococcoids (&lt;10um)</i>		730	0	36434	60	2.18607
<i>Oocystis</i>		9	0	449	300	0.13476

### CRYPTOPHYCEAE

<i>Cryptomonads</i>		4	0	200	320	0.06389
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### CYANOPHYCEAE

<i>Planktolyngbya</i>		20	0	998	3.8	0.00379
<i>Pseudanabaena</i>		5	0	250	12.5	0.00312
<i>Synechococcales small (iauv &lt;20)</i>		6950	0	346876	5.25	1.82110

### DINOPHYCEAE

<i>Dinoflagellates</i>		5	0	250	20000	4.99102
<i>Gymnodiniales</i>		1	0	50	2000	0.09982
<i>Gymnodiniales (small)</i>		39	0	1946	500	0.97325
<i>Peridinales</i>		3	0	150	5000	0.74865

### OTHER PHYTOPLANKTON

<i>Other small flagellates</i>		24	0	1198	80	0.09583
<i>Prasinophytes</i>		1	0	50	100	0.00499

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

REVIEWED: **Adam Deliyannis**  
Biologist

DATE: **02/03/2021**

METHOD NO.: MB010/MW024VCA

Page 1 of 2

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TOTAL BGA	348124	1.82801
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	399281	12.84368

+ 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.

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Page 2 of 2