

## ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	187813 22-45580
LOCALITY :	EM2209350-009
SITE :	Morella Creek @Gauge
SAMPLE :	Surface
DATE SAMPLED :	19/05/2022
DATE ANALYSED :	24/05/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + Current levels of algae are unlikely to impair water quality.

Sedgewick-Rafter Vol.(ml)	1.0018	Toxicogenic (T) or Potentially toxic (P)	- 200x	- 100x	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um <sup>3</sup> )	Total Biovolume (mm <sup>3</sup> /L)
Concentration	1 : 1	*	20	500			
Magnification							
Fields							

### BACILLARIOPHYCEAE

Pennales	4	0	200	300	0.05989
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### CHLOROPHYCEAE

Botryococcus	0	70	140	98	0.01370
Chlamydomonads	1	0	50	250	0.01248
Chlorococcoids (<10um)	200	0	9982	60	0.59892
Monoraphidium (small)	28	0	1397	16	0.02236
Oocystis	1	0	50	300	0.01497

### CRYPTOPHYCEAE

Cryptomonads	2	0	100	320	0.03194
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### CYANOPHYCEAE

Planktolyngbya	260	0	12977	3.8	0.04931
Synechococcales small (iauv <20)	370	0	18467	5.25	0.09695

### DINOPHYCEAE

Gymnodiniales	22	0	1098	2000	2.19605
Peridinales	5	0	250	5000	1.24775

### OTHER PHYTOPLANKTON

Other small flagellates	4	0	200	80	0.01597
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TOTAL BGA	31444	0.14626
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	44911	4.36030

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

REVIEWED: **Adam Deliyiannis (signatory)**  
Biologist

DATE: **24/05/2022**

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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.