

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6622183 20-32670
LOCALITY :	EM2011705_016
SITE :	Morella Creek @ gauge
SAMPLE :	Surface
DATE SAMPLED :	7/07/2020
DATE ANALYSED :	13/07/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A highly diverse algal community was observed with small BGA and greens most numerous. Water quality is likely to be impaired.

Sedgewick-Rafter Vol.(ml)	1.0199	Toxigenic (T) or Potentially toxic (P)	- 200x	- 100x	Total Cell Count (cells/mL)
Concentration	1 : 1	*	20	500	
Magnification					
Fields					

BACILLARIOPHYCEAE

<i>Centrales</i>		1	0	49
<i>Chaetoceros</i>		4	0	196
<i>Cymbella</i>		0	5	10
<i>Navicula</i>		30	0	1471
<i>Nitzschia</i>		0	1	2
<i>Pennales</i>		1	0	49

CHLOROPHYCEAE

<i>Chlamydomonads</i>		50	0	2451
<i>Chlorococcoids</i>		370	0	18139
<i>Filamentous Green</i>		0	1	2
<i>Monoraphidium</i>		80	0	3922
<i>Oocystis</i>		90	0	4412
<i>Selenastrum</i>		675	0	33091

CHRYSTOPHYCEAE

<i>Other Chrysophyceae</i>		2	0	98
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CRYPTOPHYCEAE

<i>Cryptomonads</i>		2	0	98
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CYANOPHYCEAE

<i>Planktolyngbya</i>		315	0	15443
<i>Pseudanabaena</i>		9	0	441
<i>Synechococcales small (iauv <20)</i>		1150	0	56378

DINOPHYCEAE

<i>Gymnodiniales</i>		2	0	98
<i>Gymnodiniales (small)</i>		11	0	539
<i>Peridinales</i>		3	0	147

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

REVIEWED: **Adam Deliyannis**
Biologist

DATE: **13/07/2020**

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EUGLENOPHYCEAE

Euglena		0	2	4
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OTHER PHYTOPLANKTON

Prasinophytes		8	0	392
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TOTAL BGA	72262
TOTAL TOXIGENIC BGA	0
TOTAL POTENTIALLY TOXIC BGA	0
TOTAL ALGAE	137432

+ The comments are discretionary and are for the purpose of helping to understand WQ implications. The comments are not accredited by NATA.

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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METHOD NO.: MB010

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