

22 Dalmore Drive Scoresby 3179 Tel. 03 8756 8183 Fax. 03 9763 1862





ALGAL REPORT

CLIENT:	ALS					
LABORATORY NO./BATCH NO. :	6695263 20-42534					
LOCALITY:	EM2015594_015					
SITE:	Morella Creek @ Gauge					
SAMPLE:	Surface					
DATE SAMPLED :	9/09/2020					
DATE ANALYSED :	11/09/2020					
SAMPLED BY:	Sample analysed as received					

COMMENTS: + A diverse algal community was observed with high levels of small BGA and greens present. Water quality may be impaired.

Sedgewick-Rafter Vol.(ml) 1 Concentration Magnification Fields	.0105 1 : 1 Toxigenic (T) or Potentially toxic (P)	- 200x 20	- 100x 500	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
BACILLARIOPHYCEAE						
Centrales		1	0	49	200	0.00990
Naviculales		9	0	445	1400	0.62345
Pennales		1	0	49	300	0.01484
Pennales (small <20um)		4	0	198	251	0.04968
CHLOROPHYCEAE						
Ankistrodesmoideae		690	0	34142	132	4.50668
Chlamydomonads		1	0	49	250	0.01237
Chlorococcoids (<10um)		290	0	14349	60	0.86096
Colonial green (cells)		310	0	15339	100	1.53389
Dictyosphaerium		16	0	792	20	0.01583
Lagerheimia		2	0	99	500	0.04948
Oocystis		14	0	693	300	0.20782
Selenastrum		670	0	33152	250	8.28798
CHRYSOPHYCEAE						
Other Chrysophyceae		1	0	49	350	0.01732
CRYPTOPHYCEAE						
Cryptomonads		1	0	49	320	0.01583
CYANOPHYCEAE	<u>'</u>					
Limnothrix/Geitlerinema/Anagnostidinema	Р	0	33	65	17.5	0.00114
Synechococcales small (iauv <20)		4000	0	197922	5.25	1.03909
DINOPHYCEAE						
Gymnodiniales		0	1	2	2000	0.00396
Gymnodiniales (small)		1	0	49	500	0.02474
EUGLENOPHYCEAE						
Eutreptia		0	1	2	1000	0.00198

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

 ${\tt REVIEWED:} \textbf{\textit{Adam Deliyiannis}}$ Biologist

Page 1 of 2 METHOD NO.: MB010/MW024CV

DATE: **14/09/2020**



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OTHER PHYTOPLANKTON							
Other small flagellates			5	0	247	80	0.01979
TOTAL BGA		197987				1.04023	
TOTAL TOXIGENIC BGA		0				0.00000	
TOTAL POTENTIALLY TOXIC BGA		65				0.00114	
TOTAL ALGAE		297741				17.29674	

⁺ 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

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.

ANALYST: Kirsten Mudie (signatory) REVIEWED: Adam Deliyiannis DATE: 14/09/2020 Biologist **Biologist**

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^{*} 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.