

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





## **ALGAL REPORT**

CLIENT:	Australian Laboratory Services Pty Ltd SA				
LABORATORY NO./BATCH NO. :	6754217 20-50457				
LOCALITY:	EM2018692-016				
SITE:	Morella Ck @ gauge				
SAMPLE:	Surface				
DATE SAMPLED :	21/10/2020				
DATE ANALYSED :	28/10/2020				
SAMPLED BY:	Sample analysed as received				

COMMENTS: + A diverse and abundant algal community was observed. Current overall levels are sufficient to influence water quality.

Sedgewick-Rafter Vol.(ml) 1 Concentration Magnification Fields	.0199 1 : 1 Toxigenic (T) or Potentiall toxic (P)	y	- 100x 500	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
BACILLARIOPHYCEAE						
Amphora		0	1	2	500	0.00098
Cocconeis		2	0	98	450	0.04412
Encyonema		2	0	98	500	0.04902
Naviculales		4	0	196	1400	0.27454
Nitzschia		8	0	392	400	0.15688
Pennales		1	0	49	300	0.01471
Pennales (small <20um)		29	0	1422	251	0.35685
CHLOROPHYCEAE	<u>.</u>	<u>.</u>				
Ankistrodesmoideae		180	0	8824	132	1.16482
Chlamydomonads		7	0	343	250	0.08579
Chlorococcoids (<10um)		1120	0	54907	60	3.29444
Colonial green (cells)		32	0	1569	100	0.15688
Dictyosphaerium		8	0	392	20	0.00784
Didymocystis		4	0	196	41	0.00804
Lagerheimia		27	0	1324	500	0.66183
Oocystis		260	0	12746	300	3.82390
Scenedesmus		4	0	196	250	0.04902
Selenastrum		354	0	17355	250	4.33866
Sphaerocystis		36	0	1765	300	0.52946
CRYPTOPHYCEAE		·				
Cryptomonads		5	0	245	320	0.07844
CYANOPHYCEAE	·	•				
Planktolyngbya		25	0	1226	3.8	0.00466
Pseudanabaena		7	0	343	12.5	0.00429
Synechococcales small (iauv <20)		4320	0	211785	5.25	1.11187

ANALYST: Karen Simonsen (signatory) REVIEWED: Adam Deliyiannis DATE: 28/10/2020
Biologist Biologist

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**COMMENTS: +** A diverse and abundant algal community was observed. Current overall levels are sufficient to influence water quality.

Sedgewick-Rafter Vol.(ml) 1 Concentration Magnification Fields	1.0199 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)
Synechococcales large (iauv 20-86)			0	24	47	54	0.00254
DINOPHYCEAE							
Gymnodiniales (small)			1	0	49	500	0.02451
OTHER PHYTOPLANKTON							
Other small flagellates			1	0	49	80	0.00392
TOTAL BGA		213401				1.12336	
TOTAL TOXIGENIC BGA		0				0.00000	
TOTAL POTENTIALLY TOXIC BGA		0				0.00000	
TOTAL ALGAE		315618				16.24803	

<sup>+</sup> 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

ANALYST: Karen Simonsen (signatory) REVIEWED: Adam Deliyiannis DATE: 28/10/2020 **Biologist Biologist** 

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<sup>\*</sup> 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.