

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



DATE: 11/08/2020



ALGAL REPORT

CLIENT:	ALS					
LABORATORY NO./BATCH NO.:	6657134 20-37229					
LOCALITY:	EM2013637_016					
SITE:	Bonneys					
SAMPLE:	Surface					
DATE SAMPLED :	5/08/2020					
DATE ANALYSED :	11/08/2020					
SAMPLED BY:	Sample analysed as received					

COMMENTS: + A diverse algal community was observed with small BGA and greens present in high levels. Water quality is likely to be impaired.

Sedgewick-Rafter Vol.(ml) 1.0268 Concentration 1 : 1 Magnification Fields	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						
Chaetoceros		1	0	49	200	0.00974
Navicula		1	0	49	1400	0.06817
Pennales		2	0	97	300	0.02922
Pennales (small <20um)		2	0	97	251	0.02444
Pleurosigma		0	1	2	2000	0.00390
CHLOROPHYCEAE	·					
Ankistrodesmoideae		46	0	2240	132	0.29568
Chlamydomonads		2	0	97	250	0.02435
Chlorococcoids (<10um)		770	0	37495	60	2.24971
Oocystis		1	0	49	300	0.01461
CHRYSOPHYCEAE						
Other Chrysophyceae		2	0	97	350	0.03409
CRYPTOPHYCEAE						
Cryptomonads		54	0	2630	320	0.84145
CYANOPHYCEAE						
Leptolyngbya		0	65	127	2.36	0.00030
Planktolyngbya		250	0	12174	3.8	0.04626
Pseudanabaena		0	57	111	12.5	0.00139
Synechococcales small (iauv <20)		2530	0	123198	5.25	0.64679
DINOPHYCEAE						
Gymnodiniales		2	0	97	2000	0.19478
Gymnodiniales (small)		4	0	195	500	0.09739
Peridiniales		1	0	49	5000	0.24347
EUGLENOPHYCEAE						
Trachelomonas		0	1	2	3000	0.00584

ANALYST: Kirsten Mudie (signatory)
Biologist

REVIEWED: Adam Deliyiannis
Biologist

METHOD NO.: MB010/MW024CV Page 1 of 2



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OTHER PHYTOPLANKTON							
Other small flagellates			26	0	1266	80	0.10129
Prasinophytes			20	0	974	100	0.09739
TOTAL BGA		135610				0.69474	
TOTAL TOXIGENIC BGA		0				0.00000	
TOTAL POTENTIALLY TOXIC BGA		0				0.00000	
TOTAL ALGAE		181095				5.03025	

⁺ 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.

ANALYST: Kirsten Mudie (signatory) REVIEWED: Adam Deliyiannis DATE: 11/08/2020
Biologist Biologist

METHOD NO.: MB010/MW024CV Page 2 of 2

^{*} 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.