

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





ALGAL REPORT

CLIENT:	ALS			
LABORATORY NO./BATCH NO.:	6681715 20-40763			
LOCALITY:	EM2014780-011			
SITE:	Murray Mouth			
SAMPLE:	Surface			
DATE SAMPLED :	26/08/2020			
DATE ANALYSED :	28/08/2020			
SAMPLED BY:	Sample analysed as received			

COMMENTS: + A diverse community of algal taxa was observed. Current levels of low biovolume BGA may mildly influence water quality.

Sedgewick-Rafter Vol.(ml) 1.033 Concentration 1 : Magnification Fields	(T) an	- 200x 20	- 100x 500	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
BACILLARIOPHYCEAE						
Pennales (small <20um)		1	0	48	251	0.01215
CHLOROPHYCEAE						
Ankistrodesmus		6	0	290	132	0.03832
Chlamydomonads		1	0	48	250	0.01210
Chlorococcoids (<10um)		124	0	6000	60	0.36001
Closterium		1	0	48	4130	0.19985
Crucigenia		32	0	1548	30	0.04645
Didymocystis		2	0	97	41	0.00397
Hyaloraphidium		19	0	919	750	0.68954
Lagerheimia		3	0	145	500	0.07258
Oocystis		65	0	3145	300	0.94358
Pediastrum		6	0	290	60	0.01742
Planctonema		36	0	1742	800	1.39359
Scenedesmus		14	0	677	250	0.16936
Selenastrum		4	0	194	250	0.04839
Tetraedron		2	0	97	150	0.01452
CHRYSOPHYCEAE						
Other Chrysophyceae		1	0	48	350	0.01694
CRYPTOPHYCEAE						
Cryptomonads		18	0	871	320	0.27872
CYANOPHYCEAE						
Limnolyngbya (Planktolyngbya circumcreta)		200	0	9678	4.9	0.04742
Microcystis	Р	0	50	97	74	0.00716
Planktolyngbya		364	0	17613	3.8	0.06693
Pseudanabaena		212	0	10258	12.5	0.12823

ANALYST: Adam Deliyiannis
Biologist

REVIEWED: Kirsten Mudie (signatory)
Biologist

METHOD NO.: MB010/MW024CV

DATE: **28/08/2020**



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Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0333 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 small (iauv <20)			2220	0	107423	5.25	0.56397
DINOPHYCEAE							
Dinoflagellates			0	2	4	20000	0.07742
Gymnodiniales (small)			1	0	48	500	0.02419
OTHER PHYTOPLANKTON							
Other small flagellates			5	0	242	80	0.01936
Prasinophytes			2	0	97	100	0.00968

TOTAL BGA	145069	0.81371
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	97	0.00716
TOTAL ALGAE	161667	5.26184

⁺ 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 β-N-methylamino-L-alanine (BMAA) and its analogues. Therefore all cyanobacteria could be considered to pose a level of risk.

ANALYST: Adam Deliyiannis REVIEWED: Kirsten Mudie (signatory) DATE:

Biologist Biologist

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