

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





ALGAL REPORT

CLIENT:	ALS					
LABORATORY NO./BATCH NO.:	6722412 20-45935					
LOCALITY:	EM2017172-010					
SITE:	Murray Mouth					
SAMPLE:	Surface					
DATE SAMPLED :	30/09/2020					
DATE ANALYSED :	8/10/2020					
SAMPLED BY:	Sample analysed as received					

COMMENTS: + A highly diverse community of algal taxa was observed. Current levels of BGA may impair water quality.

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)
BACILLARIOPHYCEAE							
Asterionellopsis			0	16	31	500	0.01548
Centrales			2	0	97	200	0.01936
Naviculales			1	0	48	1400	0.06774
Pennales (small <20um)			1	0	48	251	0.01215
CHLOROPHYCEAE							
Ankistrodesmus			4	0	194	132	0.02555
Ankyra			2	0	97	40	0.00387
Chlorococcoids (<10um)			10	0	484	60	0.02903
Closterium			0	4	8	4130	0.03198
Crucigenia			12	0	581	30	0.01742
Dictyosphaerium			4	0	194	20	0.00387
Didymocystis			2	0	97	41	0.00397
Dimorphococcus			8	0	387	20	0.00774
Hyaloraphidium			2	0	97	750	0.07258
Lagerheimia			5	0	242	500	0.12097
Monoraphidium			0	1	2	900	0.00174
Oocystis			92	0	4452	300	1.33553
Planctonema			111	0	5371	800	4.29691
Scenedesmus			4	0	194	250	0.04839
Selenastrum			2	0	97	250	0.02419
CRYPTOPHYCEAE							
Cryptomonads			4	0	194	320	0.06194
CYANOPHYCEAE							
Limnolyngbya (Planktolyngbya circumcreta	a)		49	0	2371	4.9	0.01162
Planktolyngbya			80	0	3871	3.8	0.01471

ANALYST: Adam Deliyiannis Biologist

REVIEWED: Karen Simonsen (signatory)

Biologist

DATE: 08/10/2020

METHOD NO.: MB010/MW024CV



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





ALGAL REPORT

CLIENT:	ALS					
LABORATORY NO./BATCH NO.:	6722412 20-45935					
LOCALITY:	EM2017172-010					
SITE:	Murray Mouth					
SAMPLE:	Surface					
DATE SAMPLED :	30/09/2020					
DATE ANALYSED :	8/10/2020					
SAMPLED BY:	Sample analysed as received					

COMMENTS: + A highly diverse community of algal taxa was observed. Current levels of BGA may impair water quality.

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)
Pseudanabaena			0	12	23	12.5	0.00029
Romeria			18	0	871	31	0.02700
Synechococcales small (iauv <20)			1690	0	81777	5.25	0.42933
DINOPHYCEAE							
Gymnodiniales (small)			2	0	97	500	0.04839
OTHER PHYTOPLANKTON							
Other small flagellates			15	0	726	80	0.05807
Prasinophytes			3	0	145	100	0.01452
TOTAL BGA		88913				0.48295	
TOTAL TOXIGENIC BGA		0				0.00000	
TOTAL POTENTIALLY TOXIC BGA		0				0.00000	
TOTAL ALGAE		102796				6.80434	

⁺ 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: Karen Simonsen (signatory) DATE: 08/10/2020
Biologist Biologist

METHOD NO.: MB010/MW024CV Page 2 of 2