

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. :	7116645 21-39298			
LOCALITY:	EM2115770-001			
SITE:	Murray Mouth			
SAMPLE:	Surface			
DATE SAMPLED :	10/08/2021			
DATE ANALYSED :	13/08/2021			
SAMPLED BY:	Sample analysed as received			

COMMENTS: + A diverse community of algal taxa was observed. Current levels are likely to impact water quality.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0145 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							
Fragilariaceae			17	0	838	500	0.41893
Gyrosigma			1	0	49	1400	0.06900
Naviculales			1	0	49	1400	0.06900
Nitzschia			4	0	197	400	0.07886
Pennales (small <20um)			16	0	789	251	0.19793
CHLOROPHYCEAE							
Ankistrodesmoideae			4	0	197	132	0.02602
Chlorococcoids (<10um)			60	0	2957	60	0.17743
Closterium			0	1	2	4130	0.00814
Crucigenia			144	0	7097	30	0.21291
Didymocystis			6	0	296	41	0.01212
Eremosphaera			1	0	49	700	0.03450
Lagerheimia			3	0	148	500	0.07393
Micractinium			1	0	49	30	0.00148
Monoraphidium			24	0	1183	900	1.06456
Nephrocytium			8	0	394	200	0.07886
Oocystis			65	0	3204	300	0.96106
Pediastrum			11	0	542	60	0.03253
Planctonema			179	0	8822	800	7.05766
Scenedesmus			28	0	1380	250	0.34500
CRYPTOPHYCEAE							
Cryptomonads			31	0	1528	320	0.48891
CYANOPHYCEAE							
Limnolyngbya (Planktolyngbya circumcre	ta)		1650	0	81321	4.9	0.39847
Oscillatoriales (iauv 1-100)		Р	0	161	317	60.8	0.01930

ANALYST: Karen Simonsen (signatory) F Biologist

REVIEWED: Adam Deliyiannis
Biologist

METHOD NO.: MB010/MW024VCA

DATE: 16/08/2021



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Oscillatoriales (iauv 201-400)		Р	0	78	154	285.3	0.04387
Planktolyngbya			3400	0	167570	3.8	0.63677
Synechococcales small (iauv <20)			2900	0	142928	5.25	0.75037

TOTAL BGA	392290	1.84878
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	471	0.06317
TOTAL ALGAE	422060	13.25761

⁺ 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: Karen Simonsen (signatory) REVIEWED: Adam Deliyiannis DATE: 16/08/2021
Biologist Biologist

METHOD NO.: MB010/MW024VCA 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.