ALS Water
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. :	7328738 22-06265
LOCALITY :	EM2201088-009
SITE :	Murray Mouth
SAMPLE :	Surface
DATE SAMPLED :	20/01/2022
DATE ANALYSED :	1/02/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + Current algal levels are unlikely to influence water quality. High levels of debris may obscure the identification of picoplankton.

Sedgewick-Rafter Vol.(ml) 1.0242 **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						
Pennales		1	0	49	300	0.01465
Pennales (small <20um)		1	0	49	251	0.01225
CHLOROPHYCEAE						
Chlorococcoids (<10um)		11	0	537	60	0.03222
Monoraphidium (small)		5	0	244	16	0.00391
Oocystis		17	0	830	300	0.24897
Planctonema		82	0	4003	800	3.20250
Scenedesmus		4	0	195	250	0.04882
CYANOPHYCEAE						
Limnolyngbya		103	0	5028	4.9	0.02464
Limnothrix/Geitlerinema/Anagnostidinema	P	37	0	1806	17.5	0.03161
Planktolyngbya		725	0	35393	3.8	0.13450
Pseudanabaena		16	0	781	12.5	0.00976
Synechococcales small (iauv <20)		5	0	244	5.25	0.00128
OTHER PHYTOPLANKTON						
Other small flagellates		5	0	244	80	0.01953

TOTAL BGA	**43252**	**0.20179**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**1806**	**0.03161**
TOTAL ALGAE	**49403**	**3.78463**

ANALYST: ***Adam Deliyiannis (signatory)*** REVIEWED: ***Kirsten Mudie (signatory)*** DATE: **01/02/2022**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA

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		Toxigenic (T) or Potentially toxic (P)			Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
Sedgewick-Rafter Vol.(ml)	1.0242						
Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			

+ 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 (signatory)* REVIEWED: *Kirsten Mudie (signatory)* DATE: **01/02/2022**

Biologist **Biologist**

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