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. :	7609352 22-60563
LOCALITY :	EM2215130-001
SITE :	Murray Mouth
SAMPLE :	Surface
DATE SAMPLED :	8/08/2022
DATE ANALYSED :	12/08/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse algal community was observed, but current combined levels are unlikely to impact water quality.

Sedgewick-Rafter Vol.(ml) 1.0578 **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						
Centrales		1	0	47	200	0.00945
Centrales - (5-10um)		1	0	47	80	0.00378
Pennales (small <20um)		6	0	284	251	0.07119
CHLOROPHYCEAE						
Chlorococcoids (<10um)		15	0	709	60	0.04254
Crucigenia		24	0	1134	30	0.03403
Didymocystis		4	0	189	41	0.00775
Monoraphidium (small)		6	0	284	16	0.00454
Monoraphidium (large)		0	5	9	400	0.00378
Planctonema		24	0	1134	800	0.90754
Scenedesmus		10	0	473	250	0.11817
CRYPTOPHYCEAE						
Cryptomonads		2	0	95	320	0.03025
Cryptomonas		0	1	2	320	0.00061
CYANOPHYCEAE						
Limnolyngbya		16	0	756	4.9	0.00371
Planktolyngbya		60	0	2836	3.8	0.01078
Synechococcales small (iauv <20)		32	0	1513	5.25	0.00794
DINOPHYCEAE						
Dinoflagellates		0	2	4	20000	0.07563

TOTAL BGA	**5105**	**0.02242**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**9516**	**1.33169**

ANALYST: ***Karen Simonsen (signatory)*** REVIEWED: ***Adam Deliyiannis (signatory)*** DATE: **12/08/2022**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA

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Sedgewick-Rafter Vol.(ml)	1.0578						
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: *Karen Simonsen (signatory)* REVIEWED: *Adam Deliyiannis (signatory)* DATE: **12/08/2022**
Biologist **Biologist**

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