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. :	187814 22-45580
LOCALITY :	EM2209350-010
SITE :	Murray Mouth
SAMPLE :	Surface
DATE SAMPLED :	18/05/2022
DATE ANALYSED :	24/05/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + Current levels of algae are unlikely to influence water quality.

Sedgewick-Rafter Vol.(ml) 1.0303 **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						
Anaulus		2	0	97	500	0.04853
Asterionellopsis		0	97	188	500	0.09415
Centrales		3	0	146	200	0.02912
Chaetoceros		1	0	49	200	0.00971
Pennales		1	0	49	300	0.01456
Pennales (small <20um)		1	0	49	251	0.01218
CHLOROPHYCEAE						
Chlamydomonads		1	0	49	250	0.01213
Chlorococcoids (<10um)		3	0	146	60	0.00874
Crucigenia		4	0	194	30	0.00582
Monoraphidium (small)		5	0	243	16	0.00388
Oocystis		7	0	340	300	0.10191
Planctonema		28	0	1359	800	1.08706
CRYPTOPHYCEAE						
Cryptomonads		1	0	49	320	0.01553
CYANOPHYCEAE						
Aphanizomenonaceae family - straight	P	0	24	47	67	0.00312
Limnolyngbya		0	26	50	4.9	0.00025
Planktolyngbya		92	0	4465	3.8	0.01697
Synechococcales small (iauv <20)		7	0	340	5.25	0.00178
OTHER PHYTOPLANKTON						
Other small flagellates		3	0	146	80	0.01165

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Adam Deliyiannis (signatory)*** DATE: **24/05/2022**
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)	1.0303						
Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			
TOTAL BGA					**4902**		**0.02212**
TOTAL TOXIGENIC BGA					**0**		**0.00000**
TOTAL POTENTIALLY TOXIC BGA					**47**		**0.00312**
TOTAL ALGAE					**8006**		**1.47708**

+ 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: *Kirsten Mudie (signatory)* REVIEWED: *Adam Deliyiannis (signatory)* DATE: **24/05/2022**
Biologist **Biologist**

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