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. :	7328730 22-06265
LOCALITY :	EM2201088-001
SITE :	1.8km W of Salt Ck
SAMPLE :	Surface
DATE SAMPLED :	20/01/2022
DATE ANALYSED :	1/02/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + Current algal levels are sufficient to impair water quality (eg: discolouration).

Sedgewick-Rafter Vol.(ml) 1.0105 **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	49	200	0.00990
Nitzschia		370	0	18308	400	7.32311
Pennales		510	0	25235	300	7.57051
CHLOROPHYCEAE						
Ankistrodesmoideae		6300	0	311727	132	41.14795
Chlorococcoids (<10um)		11480	0	568036	60	34.08214
CRYPTOPHYCEAE						
Cryptomonads		8	0	396	320	0.12667
CYANOPHYCEAE						
Pseudanabaena		16	0	792	12.5	0.00990
Synechococcales small (iauv <20)		47540	0	2352301	5.25	12.34958
DINOPHYCEAE						
Gymnodiniales		17	0	841	2000	1.68234
Gymnodiniales (small)		3	0	148	500	0.07422
OTHER PHYTOPLANKTON						
Other small flagellates		1	0	49	80	0.00396
Prasinophytes		2	0	99	100	0.00990

TOTAL BGA	**2353093**	**12.35948**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**3277981**	**104.39015**

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

METHOD NO.: MB010/MW024VCA

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

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