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. :	7428788 22-19601
LOCALITY :	EM2207234-020
SITE :	3.2km Sth of Salt Ck
SAMPLE :	Surface
DATE SAMPLED :	21/04/2022
DATE ANALYSED :	27/04/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + High levels of low biovolume BGA, diatoms and greens will impair water quality.

Sedgewick-Rafter Vol.(ml) 1.0333 **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						
Nitzschia		360	0	17420	400	6.96797
Pennales		1	0	48	300	0.01452
CHLOROPHYCEAE						
Ankistrodesmoideae		1360	0	65809	132	8.68673
Carteria		1	0	48	300	0.01452
Chlorococcoids (<10um)		2460	0	119036	60	7.14217
Oocystis		9	0	435	300	0.13065
CRYPTOPHYCEAE						
Cryptomonads		1	0	48	320	0.01548
CYANOPHYCEAE						
Synechococcales small (iauv <20)		22680	0	1097455	5.25	5.76164
DINOPHYCEAE						
Gymnodiniales		10	0	484	2000	0.96777
Gymnodiniales (small)		1	0	48	500	0.02419
OTHER PHYTOPLANKTON						
Other small flagellates		12	0	581	80	0.04645
Prasinophytes		1	0	48	100	0.00484
Raphidophytes		1	0	48	7000	0.33872

TOTAL BGA	**1097455**	**5.76164**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**1301508**	**30.11565**

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Adam Deliyiannis (signatory)*** DATE: **27/04/2022**
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)	1.0333						
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: **27/04/2022**
Biologist **Biologist**

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