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. :	187806 22-45580
LOCALITY :	EM2209350-002
SITE :	3.2km Sth of Salt Ck
SAMPLE :	Surface
DATE SAMPLED :	19/05/2022
DATE ANALYSED :	24/05/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa were observed. Current levels are likely to influence water qualiity.

Sedgewick-Rafter Vol.(ml) 1.0046 **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		90	0	4479	400	1.79176
Pennales		2	0	100	300	0.02986
Pennales (small <20um)		1	0	50	251	0.01249
CHLOROPHYCEAE						
Ankistrodesmoideae		66	0	3285	132	0.43361
Chlorococcoids (<10um)		775	0	38573	60	2.31435
CRYPTOPHYCEAE						
Cryptomonads		116	0	5773	320	1.84750
CYANOPHYCEAE						
Synechococcales small (iauv <20)		9440	0	469839	5.25	2.46665
DINOPHYCEAE						
Gymnodiniales		3	0	149	2000	0.29863
Gymnodiniales (small)		3	0	149	500	0.07466
Peridiniales		7	0	348	5000	1.74199
OTHER PHYTOPLANKTON						
Other small flagellates		6	0	299	80	0.02389
Prasinophytes		2	0	100	100	0.00995

TOTAL BGA	**469839**	**2.46665**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**523144**	**11.04534**

ANALYST: *Adam Deliyiannis (signatory)* REVIEWED: *Louise Ungemach (signatory)* DATE: **25/05/2022**
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: *Adam Deliyiannis (signatory)* REVIEWED: *Louise Ungemach (signatory)* DATE: **25/05/2022**

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