

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.:	7116662 21-39298				
LOCALITY:	EM2115770-018				
SITE:	1.8km W of Salt Ck				
SAMPLE:	Surface				
DATE SAMPLED :	9/08/2021				
DATE ANALYSED :	13/08/2021				
SAMPLED BY:	Sample analysed as received				

COMMENTS: + A diverse community of algal taxa was observed. High levels of the BGA Synechococcales are likely to impact water quality.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0272 1 : 1	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							
Amphora			0	1	2	500	0.00097
Naviculales			1	0	49	1400	0.06815
Nitzschia			4	0	195	400	0.07788
Pennales			4	0	195	300	0.05841
Pennales (small <20um)			5	0	243	251	0.06109
CHLOROPHYCEAE							
Ankistrodesmoideae			32	0	1558	132	0.20561
Chlorococcoids (<10um)			42	0	2044	60	0.12266
CYANOPHYCEAE							
Synechococcales small (iauv <20)			17760	0	864486	5.25	4.53855
DINOPHYCEAE							
Gymnodiniales			1	0	49	2000	0.09735
Gymnodiniales (small)			14	0	681	500	0.34073
OTHER PHYTOPLANKTON							
Other small flagellates			14	0	681	80	0.05452
Prasinophytes			2	0	97	100	0.00974
Raphidophytes			6	0	292	7000	2.04439
TOTAL BGA		864486				4.53855	
TOTAL TOXIGENIC BGA TOTAL POTENTIALLY TOXIC BGA			0				0.00000
							0.00000
TOTAL ALGAE			870572				7.68005

ANALYST: Adam Deliyiannis
Biologist

REVIEWED: **Karen Simonsen (signat Biologist**

REVIEWED: Karen Simonsen (signatory) DATE: 13/08/2021

METHOD NO.: MB010/MW024VCA Page 1 of 2



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. :	7116662 21-39298				
LOCALITY:	EM2115770-018				
SITE:	1.8km W of Salt Ck				
SAMPLE:	Surface				
DATE SAMPLED :	9/08/2021				
DATE ANALYSED :	13/08/2021				
SAMPLED BY:	Sample analysed as received				

COMMENTS: + A diverse community of algal taxa was observed. High levels of the BGA Synechococcales are likely to impact water quality.

Sedgewick-Rafter Vol.(ml) Concentration Magnification	1.0272 1 : 1	Toxigenic (T) or Potentially toxic (P)		- 100x	Total Cell Count	Individual Algal Unit Volume	Total Biovolume
Fields		*	20	500	(cells/mL)	(um3)	(mm3/L)

⁺ 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

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.

ANALYST: Adam Deliyiannis **Biologist**

REVIEWED: Karen Simonsen (signatory)

Biologist

DATE: 13/08/2021

METHOD NO.: MB010/MW024VCA Page 2 of 2

^{*} 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.