

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.:	7064964 21-32332				
LOCALITY:	EM2112381-009				
SITE:	3.2km Sth of Salt Ck				
SAMPLE:	Surface				
DATE SAMPLED :	28/06/2021				
DATE ANALYSED :	5/07/2021				
SAMPLED BY:	Sample analysed as received				

COMMENTS: + A diverse community of algal taxa was observed. Current levels are likely to impact water quality.

BACILLARIOPHYCEAE Entomoneis 0 1 2 1000 Naviculales 1 0 48 1400 Nitzschia 84 0 4067 400 Pennales 1 0 48 300 Pennales (small <20um) 2 0 97 251 CHLOROPHYCEAE Ankistrodesmoideae 200 0 9683 132 Chlorococcoids (<10um) 240 0 11620 60 CHRYSOPHYCEAE Other Chrysophyceae 4 0 194 350 CYANOPHYCEAE Synechococcales small (iauv <20) 20080 0 972209 5.25 DINOPHYCEAE Dinoflagellates 0 2 4 2000 Gymnodiniales (small) 6 0 291 500 OTHER PHYTOPLANKTON	Total Biovolume (mm3/L)	Individual Algal Unit Volume (um3)	Total Cell Count (cells/mL)	- 100x 500	- 200x 20	Toxigenic (T) or Potentially toxic (P)	1.0327 1 : 1	Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields
Naviculales 1 0 48 1400 Nitzschia 84 0 4067 400 Pennales 1 0 48 300 Pennales (small <20um) 2 0 97 251 CHLOROPHYCEAE Ankistrodesmoideae 200 0 9683 132 Chlorococcoids (<10um) 240 0 11620 60 CHRYSOPHYCEAE Other Chrysophyceae 4 0 194 350 CYANOPHYCEAE Synechococcales small (iauv <20) 20080 0 972209 5.25 DINOPHYCEAE Dinoflagellates 0 2 4 20000 Gymnodiniales 1 0 48 2000 Gymnodiniales (small) 6 0 291 500 Peridiniales 0 1 2 5000								BACILLARIOPHYCEAE
Nitzschia 84 0 4067 400 Pennales 1 0 48 300 Pennales (small <20um)	0.00194	1000	2	1	0			Entomoneis
Pennales 1 0 48 300 Pennales (small <20um) 2 0 97 251 CHLOROPHYCEAE Ankistrodesmoideae 200 0 9683 132 Chlorococcoids (<10um)	0.06778	1400	48	0	1			Naviculales
Pennales (small <20um) 2 0 97 251 CHLOROPHYCEAE Ankistrodesmoideae 200 0 9683 132 Chlorococcoids (<10um)	1.62680	400	4067	0	84			Nitzschia
CHLOROPHYCEAE 200 0 9683 132 Chlorococcoids (<10um)	0.01453	300	48	0	1			Pennales
Ankistrodesmoideae 200 0 9683 132 Chlorococcoids (<10um)	0.02431	251	97	0	2			Pennales (small <20um)
Chlorococcoids (<10um) 240 0 11620 60 CHRYSOPHYCEAE Other Chrysophyceae 4 0 194 350 CYANOPHYCEAE Synechococcales small (iauv <20)				'				CHLOROPHYCEAE
CHRYSOPHYCEAE Other Chrysophyceae 4 0 194 350 CYANOPHYCEAE Synechococcales small (iauv <20)	1.27820	132	9683	0	200			Ankistrodesmoideae
Other Chrysophyceae 4 0 194 350 CYANOPHYCEAE Synechococcales small (iauv <20)	0.69720	60	11620	0	240			Chlorococcoids (<10um)
CYANOPHYCEAE Synechococcales small (iauv <20) 20080 0 972209 5.25 DINOPHYCEAE Dinoflagellates 0 2 4 20000 Gymnodiniales 1 0 48 2000 Gymnodiniales (small) 6 0 291 500 Peridiniales 0 1 2 5000				'				CHRYSOPHYCEAE
Synechococcales small (iauv <20) 20080 0 972209 5.25 DINOPHYCEAE Dinoflagellates 0 2 4 20000 Gymnodiniales 1 0 48 2000 Gymnodiniales (small) 6 0 291 500 Peridiniales 0 1 2 5000	0.06778	350	194	0	4			Other Chrysophyceae
DINOPHYCEAE Dinoflagellates 0 2 4 20000 Gymnodiniales 1 0 48 2000 Gymnodiniales (small) 6 0 291 500 Peridiniales 0 1 2 5000								CYANOPHYCEAE
Dinoflagellates 0 2 4 20000 Gymnodiniales 1 0 48 2000 Gymnodiniales (small) 6 0 291 500 Peridiniales 0 1 2 5000	5.10410	5.25	972209	0	20080			Synechococcales small (iauv <20)
Gymnodiniales 1 0 48 2000 Gymnodiniales (small) 6 0 291 500 Peridiniales 0 1 2 5000				'				DINOPHYCEAE
Gymnodiniales (small) 6 0 291 500 Peridiniales 0 1 2 5000	0.07747	20000	4	2	0			Dinoflagellates
Peridiniales 0 1 2 5000	0.09683	2000	48	0	1			Gymnodiniales
	0.14525	500	291	0	6			Gymnodiniales (small)
OTHER PHYTOPLANKTON	0.00968	5000	2	1	0			Peridiniales
	OTHER PHYTOPLANKTON							
Other small flagellates 18 0 872 80	0.06972	80	872	0	18			Other small flagellates
Prasinophytes 2 0 97 100	0.00968	100	97	0	2			Prasinophytes
Raphidophytes 0 2 4 7000	0.02711	7000	4	2	0			Raphidophytes

ANALYST: Adam Deliyiannis
Biologist

annis REVIEWED: Kirsten Mudie (signatory)
ogist Biologist

METHOD NO.: MB010/MW024VCA

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DATE: 05/07/2021



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Sedgewick-Rafter Vol.(ml) Concentration Magnification	1.0327 1 : 1	Toxigenic (T) or Potentially toxic (P)	- 200x	- 100x	Total Cell Count (cells/mL)	Individual Algal Unit Volume	Total Biovolume (mm3/L)
Fields		*	20	500	(Cells/IIIL)	(um3)	(111113/L)

TOTAL BGA	972209	5.10410
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	999286	9.31839

⁺ 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.

ANALYST: Adam Deliyiannis
Biologist

REVIEWED: Kirsten Mudie (signatory)
Biologist

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.