

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. :	6750295 20-50047			
LOCALITY:	EM2018692_004			
SITE:	Snipe Point			
SAMPLE:	Surface			
DATE SAMPLED :	21/10/2020			
DATE ANALYSED :	26/10/2020			
SAMPLED BY:	Sample analysed as received			

COMMENTS: + Excessive levels of small BGA and greens dominated the sample. Water quality will be impaired.

Magnification Fields									
Naviculales 3	Concentration Magnification		(T) or Potentially toxic (P)			Count	Algal Unit Volume	Total Biovolume (mm3/L)	
Naviculales 0 3 6 1400 0.008/ Nitzschia 32 0 1574 400 0.6294 Pennales 1 0 49 300 0.0147 Pennales (small <20um)	BACILLARIOPHYCEAE								
Nitzschia 32 0 1574 400 0.6294 Pennales 1 0 49 300 0.0147 Pennales (small <20um)	Centrales			3	0	148	200	0.02950	
Pennales 1 0 49 300 0.0147 Pennales (small <20um) 1 0 49 251 0.0127 CHLOROPHYCEAE Ankistrodesmoideae 340 0 16719 132 2.2068 Chlamydomonads 3 0 148 250 0.0368 Chlorococcoids (<10um)	Naviculales			0	3	6	1400	0.00826	
Pennales (small < 20um) 1 0 49 251 0.0123 CHLOROPHYCEAE Ankistrodesmoideae 340 0 16719 132 2.2068 Chlamydomonads 3 0 148 250 0.0368 Chlorococcoids (<10um)	Nitzschia			32	0	1574	400	0.62943	
CHLOROPHYCEAE 340 0 16719 132 2.2061 Chlamydomonads 3 0 148 250 0.0368 Chlorococcoids (<10um)	Pennales			1	0	49	300	0.01475	
Ankistrodesmoideae 340 0 16719 132 2.2069 Chlamydomonads 3 0 148 250 0.0368 Chlorococcoids (<10um) 3440 0 169158 60 10.1494 CHRYSOPHYCEAE Other Chrysophyceae 12 0 590 350 0.2068 CRYPTOPHYCEAE Cryptomonads 3 0 148 320 0.0472 CYANOPHYCEAE Planktolyngbya 17 0 836 3.8 0.003 Spirulina 0 525 1033 5.73 0.0058 Synechococcales small (iauv <20) 9020 0 443548 5.25 2.3286 DINOPHYCEAE Dinoflagellates 5 0 246 20000 4.9173 Gymnodiniales (small) 7 0 344 500 0.172 Peridiniales 4 0 197 5000 0.9834	Pennales (small <20um)			1	0	49	251	0.01234	
Chlamydomonads 3 0 148 250 0.0368 Chlorococcoids (<10um)	CHLOROPHYCEAE								
Chlorococcoids (<10um) 3440 0 169158 60 10.1494 CHRYSOPHYCEAE Other Chrysophyceae 12 0 590 350 0.2068 CRYPTOPHYCEAE Cryptomonads 3 0 148 320 0.0473 CYANOPHYCEAE Planktolyngbya 17 0 836 3.8 0.0033 Spirulina 0 525 1033 5.73 0.0058 Synechococcales small (iauv <20)	Ankistrodesmoideae			340	0	16719	132	2.20692	
CHRYSOPHYCEAE 12 0 590 350 0.2068 CRYPTOPHYCEAE Cryptomonads 3 0 148 320 0.0472 CYANOPHYCEAE Planktolyngbya 17 0 836 3.8 0.003 Spirulina 0 525 1033 5.73 0.0058 Synechococcales small (iauv <20)	Chlamydomonads			3	0	148	250	0.03688	
Other Chrysophyceae 12 0 590 350 0.2068 CRYPTOPHYCEAE Cryptomonads 3 0 148 320 0.0472 CYANOPHYCEAE Planktolyngbya 17 0 836 3.8 0.0037 Spirulina 0 525 1033 5.73 0.0058 Synechococcales small (iauv <20)	Chlorococcoids (<10um)			3440	0	169158	60	10.14949	
CRYPTOPHYCEAE 3 0 148 320 0.0472 CYANOPHYCEAE Planktolyngbya 17 0 836 3.8 0.0032 Spirulina 0 525 1033 5.73 0.0058 Synechococcales small (iauv <20)	CHRYSOPHYCEAE	CHRYSOPHYCEAE							
Cryptomonads 3 0 148 320 0.0472 CYANOPHYCEAE Planktolyngbya 17 0 836 3.8 0.003 Spirulina 0 525 1033 5.73 0.0058 Synechococcales small (iauv <20)	Other Chrysophyceae			12	0	590	350	0.20653	
CYANOPHYCEAE Planktolyngbya 17 0 836 3.8 0.003 Spirulina 0 525 1033 5.73 0.0058 Synechococcales small (iauv <20)	CRYPTOPHYCEAE								
Planktolyngbya 17 0 836 3.8 0.003 Spirulina 0 525 1033 5.73 0.0058 Synechococcales small (iauv <20)	Cryptomonads			3	0	148	320	0.04721	
Spirulina 0 525 1033 5.73 0.0058 Synechococcales small (iauv <20)	CYANOPHYCEAE								
Synechococcales small (iauv <20) 9020 0 443548 5.25 2.3286 DINOPHYCEAE Dinoflagellates 5 0 246 20000 4.9173 Gymnodiniales 13 0 639 2000 1.2783 Gymnodiniales (small) 7 0 344 500 0.1724 Peridiniales 4 0 197 5000 0.9834	Planktolyngbya			17	0	836	3.8	0.00318	
DINOPHYCEAE 5 0 246 20000 4.9173 Gymnodiniales 13 0 639 2000 1.2783 Gymnodiniales (small) 7 0 344 500 0.1723 Peridiniales 4 0 197 5000 0.9834	Spirulina			0	525	1033	5.73	0.00592	
Dinoflagellates 5 0 246 20000 4.9173 Gymnodiniales 13 0 639 2000 1.2783 Gymnodiniales (small) 7 0 344 500 0.1723 Peridiniales 4 0 197 5000 0.9834	Synechococcales small (iauv <20)			9020	0	443548	5.25	2.32863	
Gymnodiniales 13 0 639 2000 1.2785 Gymnodiniales (small) 7 0 344 500 0.1725 Peridiniales 4 0 197 5000 0.9834	DINOPHYCEAE								
Gymnodiniales (small) 7 0 344 500 0.172 Peridiniales 4 0 197 5000 0.9834	Dinoflagellates			5	0	246	20000	4.91739	
Peridiniales 4 0 197 5000 0.9834	Gymnodiniales			13	0	639	2000	1.27852	
	Gymnodiniales (small)			7	0	344	500	0.17211	
OTHER PHYTOPLANKTON	Peridiniales			4	0	197	5000	0.98348	
	OTHER PHYTOPLANKTON								
Other small flagellates 420 0 20653 80 1.6522	Other small flagellates			420	0	20653	80	1.65224	

ANALYST: Kirsten Mudie (signatory)
Biologist

REVIEWED: Adam Deliyiannis
Biologist

METHOD NO.: MB010/MW024CV

DATE: **27/10/2020**



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COMMENTS: + Excessive levels of small BGA and greens dominated the sample. Water quality will be impaired.

	Sedgewick-Rafter Vol.(ml) 1.0168 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)
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TOTAL BGA	445417	2.33772
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	656085	24.68278

⁺ 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: Kirsten Mudie (signatory) REVIEWED: Adam Deliyiannis DATE: 27/10/2020
Biologist Biologist

METHOD NO.: MB010/MW024CV 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.