

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.:	6796583 20-56146			
LOCALITY:	EM2021368_008			
SITE:	3.2km South of Salt Creek			
SAMPLE:	Surface			
DATE SAMPLED :	30/11/2020			
DATE ANALYSED :	3/12/2020			
SAMPLED BY:	Sample analysed as received			

COMMENTS: + A diverse algal community was observed with small BGA and greens abundant. Water quality is likely to be impaired.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0199 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			1	0	49	500	0.02451
Nitzschia			3	0	147	400	0.05883
Pennales (small <20um)			3	0	147	251	0.03692
CHLOROPHYCEAE							
Ankistrodesmoideae			760	0	37259	132	4.91813
Chlamydomonads			1	0	49	250	0.01226
Chlorococcoids (<10um)			2260	0	110795	60	6.64771
CRYPTOPHYCEAE							
Cryptomonads			3	0	147	320	0.04706
CYANOPHYCEAE							
Pseudanabaena			0	8	16	12.5	0.00020
Synechococcales small (iauv <20)			27200	0	1333464	5.25	7.00069
DINOPHYCEAE							
Dinoflagellates			1	0	49	20000	0.98049
Gymnodiniales			0	10	20	2000	0.03922
Gymnodiniales (small)			11	0	539	500	0.26963
Peridiniales			2	0	98	5000	0.49024
OTHER PHYTOPLANKTON							
Other small flagellates			20	0	980	80	0.07844
TOTAL BGA		1333480				7.00088	
TOTAL TOXIGENIC BGA		0				0.00000	
TOTAL POTENTIALLY TOXIC BGA		XIC BGA	0				0.00000
TOTAL ALGAE				1483759		20.60432	

ANALYST: Kirsten Mudie (signatory) REVIEWED: Adam Deliyiannis DATE: 04/12/2020
Biologist Biologist

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 Laborator	Australian Laboratory Services Pty Ltd SA			
LABORATORY NO./BATCH NO. :	6796583	20-56146			
LOCALITY:	EM2021368_008				
SITE:	3.2km South of Salt	Creek			
SAMPLE:	Surface				
DATE SAMPLED :	30/11/2020				
DATE ANALYSED :	3/12/2020				
SAMPLED BY:	Sample analysed as	received			

COMMENTS: + A diverse algal community was observed with small BGA and greens abundant. Water quality is likely to be impaired.

Sedgewick-Rafter Vol.(ml) Concentration	1.0199 1 : 1	Toxigenic (T) or Potentially			Total Cell	Individual Algal Unit	Total
Magnification		toxic (P)	- 200x	- 100x	Count (cells/mL)	Volume (um3)	Biovolume (mm3/L)
Fields		*	20	500	,	(41110)	` '

⁺ 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: 04/12/2020
Biologist 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.