

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. :	7136735 21-41798
LOCALITY:	EM2116912-013
SITE:	Seagull Island
SAMPLE:	Surface
DATE SAMPLED :	24/08/2021
DATE ANALYSED :	27/08/2021
SAMPLED BY:	Sample analysed as received

COMMENTS: + A diverse algal community was observed. Excessive levels of low biovolume BGA are likely to impair water quality.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	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			5	0	246	500	0.12321
Centrales - (5-10um)			1	0	49	80	0.00394
Cocconeis			9	0	444	450	0.19961
Naviculales			0	1	2	1400	0.00276
Nitzschia			47	0	2316	400	0.92656
Pennales			1	0	49	300	0.01479
Pennales (small <20um)			18	0	887	251	0.22267
CHLOROPHYCEAE							
Ankistrodesmoideae			61	0	3006	132	0.39685
Chlorococcoids (<10um)			50	0	2464	60	0.14786
Oocystis			2	0	99	300	0.02957
CYANOPHYCEAE	•	,					
Planktolyngbya			9	0	444	3.8	0.00169
Spirulina			0	315	621	5.73	0.00356
Synechococcales small (iauv <20)			26400	0	1301134	5.25	6.83095
DINOPHYCEAE							
Gymnodiniales			0	2	4	2000	0.00789
Gymnodiniales (small)			3	0	148	500	0.07393
Peridiniales			0	2	4	5000	0.01971
OTHER PHYTOPLANKTON	<u>'</u>	'					
Other small flagellates			27	0	1331	80	0.10646
Prasinophytes			3	0	148	100	0.01479
Raphidophytes			1	0	49	7000	0.34500

ANALYST: Karen Simonsen (signatory) REVIEWED: Adam Deliyiannis DATE: 30/08/2021
Biologist Biologist

METHOD NO.: MB010/MW024VCA Page 1 of 2



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Sedgewick-Rafter Vol.(ml) Concentration	1.0145 1 : 1	Toxigenic (T) or Potentially			Total Cell Count	Individual Algal Unit	Total
Magnification		toxic (P)	- 200x	- 100x	(cells/mL)	Volume	Biovolume (mm3/L)
Fields		*	20	500	(CCIIS/IIIL)	(um3)	(IIIII3/L)

2199 6.83620	1302199	TOTAL BGA
0.00000	0	TOTAL TOXIGENIC BGA
0 0.00000	0	TOTAL POTENTIALLY TOXIC BGA
3445 9.47178	1313445	TOTAL ALGAE

<sup>+</sup> 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: Karen Simonsen (signatory) REVIEWED: Adam Deliyiannis DATE: 30/08/2021
Biologist Biologist

METHOD NO.: MB010/MW024VCA Page 2 of 2

<sup>\*</sup> 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.