

22 Dalmore Drive Scoresby 3179 Tel. 03 8756 8183 Fax. 03 9763 1862



DATE: 31/08/2020



## **ALGAL REPORT**

CLIENT:	ALS			
LABORATORY NO./BATCH NO.:	6681723 20-40763			
LOCALITY:	EM2014780_019			
SITE:	Parnka Point			
SAMPLE:	Surface			
DATE SAMPLED :	26/08/2020			
DATE ANALYSED :	28/08/2020			
SAMPLED BY:	Sample analysed as received			

**COMMENTS: +** A diverse algal community was observed with small BGA and greens most numerous. Water quality may be impaired.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0208 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	0.02449
Naviculales			1	0	49	1400	0.06857
Nitzschia			3	0	147	400	0.05878
Pennales (small <20um)			4	0	196	251	0.04918
Pleurosigma			0	1	2	2000	0.00392
CHLOROPHYCEAE	CHLOROPHYCEAE						
Ankistrodesmoideae			164	0	8033	132	1.06034
Chlamydomonads			24	0	1176	250	0.29389
Chlorococcoids (<10um)			2420	0	118534	60	7.11207
Planctonema			0	5	10	800	0.00784
CHRYSOPHYCEAE							
Other Chrysophyceae			1	0	49	350	0.01714
CRYPTOPHYCEAE							
Cryptomonads			59	0	2890	320	0.92476
CYANOPHYCEAE							
Leptolyngbya			0	16	31	2.36	0.00007
Planktolyngbya			51	0	2498	3.8	0.00949
Synechococcales small (iauv <20)			2260	0	110697	5.25	0.58116
DINOPHYCEAE							
Dinoflagellates			1	0	49	20000	0.97962
Gymnodiniales			1	0	49	2000	0.09796
Gymnodiniales (small)			3	0	147	500	0.07347
Peridiniales			2	0	98	5000	0.48981
OTHER PHYTOPLANKTON							
Other small flagellates			60	0	2939	80	0.23511

ANALYST: Kirsten Mudie (signatory)
Biologist

REVIEWED: Adam Deliyiannis
Biologist

METHOD NO.: MB010/MW024CV Page 1 of 2



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Prasinophytes			32	0	1567	100	0.15674

TOTAL BGA	113226	0.59073
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	249210	12.24443

<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: Kirsten Mudie (signatory) REVIEWED: Adam Deliyiannis DATE: 31/08/2020
Biologist Biologist

METHOD NO.: MB010/MW024CV 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.