

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





ALGAL REPORT

CLIENT:	ALS
LABORATORY NO./BATCH NO. :	6657136 20-37229
LOCALITY:	EM2013637_018
SITE:	Parnka Point
SAMPLE:	Surface
DATE SAMPLED :	5/08/2020
DATE ANALYSED :	11/08/2020
SAMPLED BY:	Sample analysed as received

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

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0274 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	0.02433
Navicula			1	0	49	1400	0.06813
Nitzschia			1	0	49	400	0.01947
Pennales			2	0	97	300	0.02920
Pennales (small <20um)			7	0	341	251	0.08551
CHLOROPHYCEAE							
Ankistrodesmoideae			195	0	9490	132	1.25268
Chlamydomonads			2	0	97	250	0.02433
Chlorococcoids (<10um)			1760	0	85653	60	5.13919
Staurastrum			0	1	2	2000	0.00389
CRYPTOPHYCEAE							
Cryptomonads			7	0	341	320	0.10901
CYANOPHYCEAE							
Planktolyngbya			25	0	1217	3.8	0.00462
Synechococcales small (iauv <20)			5880	0	286159	5.25	1.50234
DINOPHYCEAE							
Gymnodiniales			5	0	243	2000	0.48667
Gymnodiniales (small)			14	0	681	500	0.34067
Peridiniales			6	0	292	5000	1.46000
OTHER PHYTOPLANKTON							
Other small flagellates			265	0	12897	80	1.03173
Prasinophytes			13	0	633	100	0.06327

ANALYST: Kirsten Mudie (signatory) REVIEWED: Adam Deliyiannis DATE: 11/08/2020
Biologist Biologist

METHOD NO.: MB010/MW024CV Page 1 of 2



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Magnification		toxic (P)	- 200x	- 100x	Count (cells/mL)	Volume	Biovolume (mm3/L)
Fields		*	20	500	(cells/lile)	(um3)	(111113/12)

6 1.50696	287376	TOTAL BGA
0.00000	0	TOTAL TOXIGENIC BGA
0.00000	0	TOTAL POTENTIALLY TOXIC BGA
11.64503	398290	TOTAL ALGAE

⁺ 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: 11/08/2020
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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.