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

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6622174 20-32670
LOCALITY :	EM2011705_006
SITE :	Noonameena
SAMPLE :	Surface
DATE SAMPLED :	7/07/2020
DATE ANALYSED :	10/07/2020
SAMPLED BY :	Sample analysed as received

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

		Toxigenic (T) or Potentially toxic (P)	- 200x	- 100x	Total Cell Count (cells/mL)
Sedgewick-Rafter Vol.(ml)	1.0268				
Concentration	1 : 1				
Magnification			20	500	
Fields		*			
BACILLARIOPHYCEAE					
Amphora			0	1	2
Centrales			1	0	49
Chaetoceros			24	0	1169
Cymbella			0	1	2
Entomoneis			1	0	49
Licmophora			0	1	2
Navicula			0	4	8
Nitzschia			1	0	49
Pennales (small <20um)			0	5	10
CHLOROPHYCEAE					
Chlamydomonads			85	0	4139
Chlorococcoids			290	0	14122
CHRYSOPHYCEAE					
Other Chrysophyceae			2	0	97
CRYPTOPHYCEAE					
Cryptomonads			125	0	6087
CYANOPHYCEAE					
Planktolyngbya			22	0	1071
Synechococcales small (iauv <20)			2220	0	108103
DINOPHYCEAE					
Gymnodiniales			0	3	6
EUGLENOPHYCEAE					
Euglenophytes			3	0	146
OTHER PHYTOPLANKTON					
Other small flagellates			1	0	49

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Adam Deliyiannis*** DATE: **13/07/2020**

Biologist **Biologist**

METHOD NO.: MB010

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Sedgewick-Rafter Vol.(ml)	1.0268	**Toxigenic (T) or Potentially toxic (P)**			**Total Cell Count (cells/mL)**
Concentration	1 : 1				
Magnification			- 200x	- 100x	
Fields		*	20	500	
Prasinophytes			10	0	487
				TOTAL BGA	**109174**
				TOTAL TOXIGENIC BGA	**0**
				TOTAL POTENTIALLY TOXIC BGA	**0**
				TOTAL ALGAE	**135647**

+ The comments are discretionary and are for the purpose of helping to understand WQ implications.The comments are not accredited by NATA.

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.

**** 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.***

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Adam Deliyiannis*** DATE: **13/07/2020**

Biologist **Biologist**

METHOD NO.: MB010