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

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6643334 20-35580
LOCALITY :	EM2012826_008
SITE :	3.2km South of Salt Creek
SAMPLE :	Surface
DATE SAMPLED :	22/07/2020
DATE ANALYSED :	27/07/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse algal community was observed. Current excessive levels of small BGA and greens will impair water quality.

		Toxigenic (T) or Potentially toxic (P)	- 200x	- 100x	Total Cell Count (cells/mL)
Sedgewick-Rafter Vol.(ml)	1.0208				
Concentration	1 : 1				
Magnification			- 200x	- 100x	
Fields		*	20	500	
BACILLARIOPHYCEAE					
Amphora			1	0	49
Entomoneis			0	2	4
Navicula			0	3	6
Nitzschia			32	0	1567
Pennales			2	0	98
Pennales (small <20um)			18	0	882
CHLOROPHYCEAE					
Chlamydomonads			40	0	1959
Chlorococcoids			6480	0	317398
Monoraphidium			160	0	7837
CRYPTOPHYCEAE					
Cryptomonads			28	0	1371
CYANOPHYCEAE					
Planktolyngbya			16	0	784
Planktothrix (small cells)			0	50	98
Synechococcales small (iauv <20)			20520	0	1005094
DINOPHYCEAE					
Gymnodiniales			6	0	294
Gymnodiniales (small)			4	0	196
Peridiniales			1	0	49
OTHER PHYTOPLANKTON					
Prasinophytes			52	0	2547

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Adam Deliyiannis*** DATE: **28/07/2020**

Biologist **Biologist**

METHOD NO.: MB010

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Sedgewick-Rafter Vol.(ml)	1.0208	**Toxigenic (T) or Potentially toxic (P)**			**Total Cell Count (cells/mL)**
Concentration	1 : 1				
Magnification			- 200x	- 100x	
Fields		*	20	500	

TOTAL BGA	**1005976**
TOTAL TOXIGENIC BGA	**0**
TOTAL POTENTIALLY TOXIC BGA	**0**
TOTAL ALGAE	**1340233**

+ 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: **28/07/2020**

Biologist **Biologist**

METHOD NO.: MB010