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

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6622186 20-32670
LOCALITY :	EM2011705_019
SITE :	3.2km South of Salt Creek
SAMPLE :	Surface
DATE SAMPLED :	7/07/2020
DATE ANALYSED :	13/07/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A highly diverse algal community was observed with small BGA and greens dominating the sample. Water quality will be impaired and this water may pose a health concern e.g. skin/gastric irritations.

Sedgewick-Rafter Vol.(ml)	1.0011				
Concentration	1 : 1				
Magnification		**Toxigenic (T) or Potentially toxic (P)**	- 200x	- 100x	**Total Cell Count (cells/mL)**
Fields		*	20	500	
BACILLARIOPHYCEAE					
Amphora			1	0	50
Centrales			1	0	50
Cymbella			1	0	50
Navicula			0	3	6
Nitzschia			30	0	1498
Pennales			1	0	50
Pennales (small <20um)			12	0	599
CHLOROPHYCEAE					
Chlamydomonads			240	0	11987
Chlorococcoids			1140	0	56937
Monoraphidium			40	0	1998
Selenastrum			4	0	200
CRYPTOPHYCEAE					
Cryptomonads			5	0	250
CYANOPHYCEAE					
Planktolyngbya			64	0	3196
Synechococcales small (iauv <20)			6080	0	303666
DINOPHYCEAE					
Gymnodiniales			14	0	699
Gymnodiniales (small)			16	0	799
Peridiniales			2	0	100
OTHER PHYTOPLANKTON					
Prasinophytes			72	0	3596

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

Biologist **Biologist**

METHOD NO.: MB010

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Concentration	1 : 1				
Magnification			- 200x	- 100x	
Fields		*	20	500	

TOTAL BGA	**306862**
TOTAL TOXIGENIC BGA	**0**
TOTAL POTENTIALLY TOXIC BGA	**0**
TOTAL ALGAE	**385731**

+ 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