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

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6643343 20-35580
LOCALITY :	EM2012826_017
SITE :	McGrath Flat North
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 with small BGA and greens present in excessive levels. Water quality is likely to be impaired.

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	
BACILLARIOPHYCEAE					
Chaetoceros			18	0	877
Navicula			1	0	49
Pennales			1	0	49
Pennales (small <20um)			1	0	49
CHLOROPHYCEAE					
Chlamydomonads			21	0	1023
Chlorococcoids			1500	0	73042
Filamentous Green			0	2	4
Monoraphidium			52	0	2532
Oocystis			2	0	97
Selenastrum			1	0	49
CHRYSOPHYCEAE					
Other Chrysophyceae			1	0	49
CRYPTOPHYCEAE					
Cryptomonads			20	0	974
CYANOPHYCEAE					
Synechococcales small (iauv <20)			4220	0	205493
DINOPHYCEAE					
Gymnodiniales			2	0	97
Gymnodiniales (small)			1	0	49
Peridiniales			2	0	97
EUGLENOPHYCEAE					
Trachelomonas			0	1	2
OTHER PHYTOPLANKTON					
Prasinophytes			4	0	195

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

Biologist **Biologist**

METHOD NO.: MB010

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TOTAL BGA	**205493**
TOTAL TOXIGENIC BGA	**0**
TOTAL POTENTIALLY TOXIC BGA	**0**
TOTAL ALGAE	**284727**

+ 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