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

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6643337 20-35580
LOCALITY :	EM2012826_011
SITE :	US Tauwitchere
SAMPLE :	Surface
DATE SAMPLED :	22/07/2020
DATE ANALYSED :	28/07/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A highly diverse and abundant algal community was observed. Current high levels of BGA are sufficient to impair water quality.

Sedgewick-Rafter Vol.(ml)	1.0744	**Toxigenic (T) or Potentially toxic (P)**			**Total Cell Count (cells/mL)**
Concentration	1 : 1				
Magnification			- 200x	- 100x	
Fields		*	20	500	
BACILLARIOPHYCEAE					
Anaulus			2	0	93
Centrales			10	0	465
Gomphonema			1	0	47
Pennales			10	0	465
Tabellaria			1	0	47
CHLOROPHYCEAE					
Ankistrodesmus			16	0	745
Chlamydomonads			2	0	93
Chlorococcoids			108	0	5026
Closterium			4	0	186
Crucigenia			144	0	6701
Dictyosphaerium			4	0	186
Didymocystis			2	0	93
Dimorphococcus			12	0	558
Elakatothrix			2	0	93
Eremosphaera			0	6	11
Hyaloraphidium			45	0	2094
Lagerheimia			5	0	233
Monoraphidium			1	0	47
Nephrocytium			6	0	279
Oocystis			96	0	4468
Pediastrum			20	0	931
Planctonema			170	0	7911
Scenedesmus			36	0	1675

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

Biologist **Biologist**

METHOD NO.: MB010

ALS Water
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Sedgewick-Rafter Vol.(ml) 1.0744 **Concentration** 1 : 1 **Magnification** **Fields**	**Toxigenic (T) or Potentially toxic (P)** *	- 200x 20	- 100x 500	**Total Cell Count (cells/mL)**
Selenastrum		15	0	698
Staurastrum		0	1	2
Tetraedron		2	0	93
CHRYSOPHYCEAE				
Other Chrysophyceae		1	0	47
CRYPTOPHYCEAE				
Cryptomonads		20	0	931
CYANOPHYCEAE				
Aphanizomenonaceae family - straight	P	9	0	419
Cuspidothrix issatschenkoi		0	82	153
Leptolyngbya		640	0	29784
Limnolyngbya (Planktolyngbya circumcreta)		1205	0	56078
Planktolyngbya		3040	0	141474
Synechococcales small (iauv <20)		14160	0	658972
DINOPHYCEAE				
Gymnodiniales (small)		1	0	47
EUGLENOPHYCEAE				
Euglena		1	0	47

TOTAL BGA	**886880**
TOTAL TOXIGENIC BGA	**0**
TOTAL POTENTIALLY TOXIC BGA	**419**
TOTAL ALGAE	**921192**

+ 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