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

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6643338 20-35580
LOCALITY :	EM2012826_012
SITE :	DW 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)	1.0199	**Toxigenic (T) or Potentially toxic (P)**			**Total Cell Count (cells/mL)**
Concentration	1 : 1				
Magnification			- 200x	- 100x	
Fields		*	20	500	
BACILLARIOPHYCEAE					
Centrales			3	0	147
Nitzschia			1	0	49
Pennales			1	0	49
Pennales (small <20um)			6	0	294
CHLOROPHYCEAE					
Ankistrodesmus			48	0	2353
Chlamydomonads			12	0	588
Chlorococcoids			80	0	3922
Closterium			1	0	49
Crucigenia			144	0	7060
Dictyosphaerium			8	0	392
Didymocystis			12	0	588
Dimorphococcus			12	0	588
Elakatothrix			1	0	49
Eremosphaera			4	0	196
Hyaloraphidium			56	0	2745
Lagerheimia			1	0	49
Monoraphidium			2	0	98
Nephrocytium			9	0	441
Oocystis			92	0	4510
Planctonema			252	0	12354
Scenedesmus			28	0	1373
Selenastrum			40	0	1961
Tetrastrum			20	0	980

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

Biologist **Biologist**

METHOD NO.: MB010

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Concentration	1 : 1				
Magnification			- 200x	- 100x	
Fields		*****	20	500	
CRYPTOPHYCEAE					
Cryptomonads			28	0	1373
CYANOPHYCEAE					
Aphanizomenonaceae family - straight		P	13	0	637
Cuspidothrix issatschenkoi			0	69	135
Leptolyngbya			380	0	18629
Limnolyngbya (Planktolyngbya circumcreta)			2280	0	111776
Planktolyngbya			3620	0	177468
Pseudanabaena			6	0	294
Synechococcales small (iauv <20)			10840	0	531425
DINOPHYCEAE					
Gymnodiniales			1	0	49
Gymnodiniales (small)			1	0	49
			TOTAL BGA		**840364**
			TOTAL TOXIGENIC BGA		**0**
			TOTAL POTENTIALLY TOXIC BGA		**637**
			TOTAL ALGAE		**882670**

+ 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