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

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6622170 20-32670
LOCALITY :	EM2011705-002
SITE :	US Tauwitchere
SAMPLE :	Surface
DATE SAMPLED :	7/07/2020
DATE ANALYSED :	10/07/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse and abundant algal community was observed. Excessive levels of cyanobacteria were present, impairing water quality and posing a health concern. (eg 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					
Fragilariaceae			6	0	300
Gomphonema			0	1	2
Nitzschia			1	0	50
Pennales (small <20um)			14	0	699
Tabellaria			1	0	50
CHLOROPHYCEAE					
Actinastrum			4	0	200
Ankistrodesmus			30	0	1498
Chlamydomonads			22	0	1099
Chlorococcoids			80	0	3996
Chodatella			4	0	200
Closterium			1	0	50
Colonial green (cells)			17	0	849
Crucigenia			312	0	15583
Didymocystis			36	0	1798
Dimorphococcus			20	0	999
Elakatothrix			4	0	200
Eremosphaera			2	0	100
Hyaloraphidium			44	0	2198
Monoraphidium			6	0	300
Nephrocytium			4	0	200
Oocystis			76	0	3796
Pediastrum			6	0	300
Planctonema			218	0	10888

ANALYST: ***Karen Simonsen (signatory)*** REVIEWED: ***Kirsten Mudie (signatory)*** DATE: **10/07/2020**

Biologist **Biologist**

METHOD NO.: MB010

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Sedgewick-Rafter Vol.(ml) 1.0011 **Concentration** 1 : 1 **Magnification** **Fields**	**Toxigenic (T) or Potentially toxic (P)** *	- 200x 20	- 100x 500	**Total Cell Count (cells/mL)**
Scenedesmus		32	0	1598
Selenastrum		24	0	1199
Tetraedron		2	0	100
Tetrastrum		32	0	1598
CRYPTOPHYCEAE				
Cryptomonads		26	0	1299
CYANOPHYCEAE				
Aphanizomenonaceae family - straight	P	28	0	1398
Cuspidothrix issatschenkoi		101	0	5044
Leptolyngbya		517	0	25822
Limnolyngbya (Planktolyngbya circumcreta)		7200	0	359604
Planktolyngbya		7600	0	379582
Pseudanabaena		30	0	1498
Synechococcales small (iauv <20)		68800	0	3436220
DINOPHYCEAE				
Gymnodiniales (small)		1	0	50
EUGLENOPHYCEAE				
Euglena		1	0	50
Trachelomonas		1	0	50
OTHER PHYTOPLANKTON				
Other small flagellates		7	0	350

TOTAL BGA	**4209168**
TOTAL TOXIGENIC BGA	**0**
TOTAL POTENTIALLY TOXIC BGA	**1398**
TOTAL ALGAE	**4260817**

ANALYST: ***Karen Simonsen (signatory)*** REVIEWED: ***Kirsten Mudie (signatory)*** DATE: **10/07/2020**

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Sedgewick-Rafter Vol.(ml)	1.0011	**Toxigenic (T) or Potentially toxic (P)**			**Total Cell Count (cells/mL)**
Concentration	1 : 1				
Magnification			- 200x	- 100x	
Fields		*	20	500	

+ 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: ***Karen Simonsen (signatory)*** REVIEWED: ***Kirsten Mudie (signatory)*** DATE: **10/07/2020**

Biologist **Biologist**