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

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6722413 20-45935
LOCALITY :	EM2017172-011
SITE :	US Tauwitchere
SAMPLE :	Surface
DATE SAMPLED :	30/09/2020
DATE ANALYSED :	8/10/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A highly diverse community of algal taxa was observed. High levels of greens and BGA are likely to impair water quality.

Sedgewick-Rafter Vol.(ml) 1.0311 **Concentration** 1 : 1 **Magnification** **Fields**	**Toxigenic (T) or Potentially toxic (P)** *	- 200x 20	- 100x 500	**Total Cell Count (cells/mL)**	**Individual Algal Unit Volume (um3)**	**Total Biovolume (mm3/L)**
BACILLARIOPHYCEAE						
Centrales		3	0	145	200	0.02910
Naviculales		0	1	2	1400	0.00272
Pennales		2	0	97	300	0.02910
CHLOROPHYCEAE						
Ankistrodesmus		9	0	436	132	0.05761
Ankyra		2	0	97	40	0.00388
Chlorococcoids (<10um)		12	0	582	60	0.03491
Closterium		0	1	2	4130	0.00801
Colonial green (cells)		72	0	3491	100	0.34914
Crucigenia		352	0	17069	30	0.51207
Dictyosphaerium		12	0	582	20	0.01164
Didymocystis		4	0	194	41	0.00795
Eremosphaera		0	4	8	700	0.00543
Golenkinia		1	0	48	400	0.01940
Hyaloraphidium		1	0	48	750	0.03637
Lagerheimia		5	0	242	500	0.12123
Oocystis		166	0	8050	300	2.41490
Pediastrum		22	0	1067	60	0.06401
Planctonema		380	0	18427	800	14.74154
Scenedesmus		32	0	1552	250	0.38794
CHRYSOPHYCEAE						
Other Chrysophyceae		1	0	48	350	0.01697
CRYPTOPHYCEAE						
Cryptomonads		5	0	242	320	0.07759
CYANOPHYCEAE						

ANALYST: *Adam Deliyiannis* **Biologist**

REVIEWED: *Karen Simonsen (signatory)* **Biologist**

DATE: **08/10/2020**

METHOD NO.: MB010/MW024CV

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Limnolyngbya (Planktolyngbya circumcreta)		552	0	26768	4.9	0.13116
Planktolyngbya		685	0	33217	3.8	0.12622
Romeria		16	0	776	31	0.02405
Synechococcales small (iauv <20)		19200	0	931045	5.25	4.88798
DINOPHYCEAE						
Dinoflagellates		0	5	10	20000	0.19397
Gymnodiniales (small)		1	0	48	500	0.02425
OTHER PHYTOPLANKTON						
Other small flagellates		14	0	679	80	0.05431

TOTAL BGA	**991806**	**5.16942**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**1044972**	**24.37344**

+ The comments are discretionary and are for the purpose of helping to understand WQ implications.The comments are not accredited by NATA.

The biovolume values reported are those derived from documented information, including scientific literature. These are average values and not those measured on individual samples.

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.***

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