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

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7116647 21-39298
LOCALITY :	EM2115770-003
SITE :	DS Tauwitchere
SAMPLE :	Surface
DATE SAMPLED :	10/08/2021
DATE ANALYSED :	13/08/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A highly diverse community of algal taxa was observed. Current levels are likely to impact water quality.

Sedgewick-Rafter Vol.(ml) 1.0291 **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						
Amphora		1	0	49	500	0.02429
Cocconeis		1	0	49	450	0.02186
Fragilariaceae		36	0	1749	500	0.87455
Nitzschia		2	0	97	400	0.03887
Pennales		2	0	97	300	0.02915
Pennales (small <20um)		8	0	389	251	0.09756
CHLOROPHYCEAE						
Chlorococcoids (<10um)		44	0	2138	60	0.12827
Closterium		0	1	2	4130	0.00803
Crucigenia		132	0	6413	30	0.19240
Didymocystis		2	0	97	41	0.00398
Eremosphaera		3	0	146	700	0.10203
Lagerheimia		5	0	243	500	0.12147
Monoraphidium		34	0	1652	900	1.48674
Oocystis		70	0	3401	300	1.02031
Pediastrum		9	0	437	60	0.02624
Planctonema		114	0	5539	800	4.43106
Scenedesmus		30	0	1458	250	0.36440
CRYPTOPHYCEAE						
Cryptomonads		9	0	437	320	0.13993
CYANOPHYCEAE						
Aphanizomenonaceae family - straight	P	6	0	292	67	0.01953
Limnolyngbya (Planktolyngbya circumcreta)		3040	0	147702	4.9	0.72374
Planktolyngbya		3350	0	162764	3.8	0.61850
Synechococcales small (iauv <20)		5400	0	262365	5.25	1.37742

ANALYST: ***Karen Simonsen (signatory)*** REVIEWED: ***Adam Deliyiannis*** DATE: **16/08/2021**

Biologist **Biologist**

METHOD NO.: MB010/MW024VCA

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		Toxigenic (T) or Potentially toxic (P)			Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
Sedgewick-Rafter Vol.(ml)	1.0291						
Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			

TOTAL BGA	**573123**	**2.73919**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**292**	**0.01953**
TOTAL ALGAE	**597516**	**11.85032**

+ 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.***

ANALYST: ***Karen Simonsen (signatory)*** REVIEWED: ***Adam Deliyiannis*** DATE: **16/08/2021**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA