ALS Water
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. :	7428771 22-19601
LOCALITY :	EM2207234-003
SITE :	DS Tauwitchere
SAMPLE :	Surface
DATE SAMPLED :	20/04/2022
DATE ANALYSED :	26/04/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + Current algal levels are unlikely to impair water quality.

Sedgewick-Rafter Vol.(ml) 1.0199 **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		45	0	2206	200	0.44122
Pennales		5	0	245	300	0.07354
CHLOROPHYCEAE						
Chlorococcoids (<10um)		110	0	5393	60	0.32356
Colonial green (cells)		16	0	784	100	0.07844
Crucigenia		8	0	392	30	0.01177
Dictyosphaerium		140	0	6863	20	0.13727
Didymocystis		4	0	196	41	0.00804
Dimorphococcus		16	0	784	20	0.01569
Lagerheimia		25	0	1226	500	0.61281
Monoraphidium (small)		105	0	5148	16	0.08236
Monoraphidium (large)		1	0	49	400	0.01961
Oocystis		155	0	7599	300	2.27964
Pediastrum		2	0	98	60	0.00588
Planctonema		40	0	1961	800	1.56878
Scenedesmus		55	0	2696	250	0.67409
Schroederia		1	0	49	550	0.02696
Staurastrum		1	0	49	2000	0.09805
Tetraedron		3	0	147	150	0.02206
Tetrastrum		4	0	196	40	0.00784
CRYPTOPHYCEAE						
Cryptomonads		10	0	490	320	0.15688
CYANOPHYCEAE						
Aphanizomenonaceae family - straight	P	13	0	637	67	0.04270
Cuspidothrix issatschenkoi		10	0	490	57	0.02794

ANALYST: *Kirsten Mudie (signatory)* **Biologist**
REVIEWED: *Adam Deliyiannis (signatory)* **Biologist**
DATE: **26/04/2022**

METHOD NO.: MB010/MW024VCA

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Limnolyngbya (Planktolyngbya circumcreta)		395	0	19365	4.9	0.09489
Planktolyngbya		580	0	28434	3.8	0.10805
Romeria		11	0	539	31	0.01672
Sphaerospermopsis aphanizomenoides		0	11	22	98	0.00211
Synechococcales small (iauv <20)		1090	0	53437	5.25	0.28054
EUGLENOPHYCEAE						
Euglena		0	1	2	7000	0.01373
OTHER PHYTOPLANKTON						
Other small flagellates		5	0	245	80	0.01961

TOTAL BGA	**102924**	**0.57295**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**637**	**0.04270**
TOTAL ALGAE	**139742**	**7.25077**

+ 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: ***Kirsten Mudie (signatory)*** REVIEWED: ***Adam Deliyiannis (signatory)*** DATE: **26/04/2022**
Biologist **Biologist**

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