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. :	187808 22-45580
LOCALITY :	EM2209350-004
SITE :	DS Tauwitchere
SAMPLE :	Surface
DATE SAMPLED :	18/05/2022
DATE ANALYSED :	24/05/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse algal community was observed with low biovolume BGA most numerous. Water quality may be impaired.

Sedgewick-Rafter Vol.(ml) 1.032 **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						
Aulacoseira		0	12	23	2860	0.06651
Centrales		6	0	291	200	0.05814
Pennales		4	0	194	300	0.05814
Pennales (small <20um)		3	0	145	251	0.03648
CHLOROPHYCEAE						
Actinastrum		0	4	8	60	0.00047
Chlorococcoids (<10um)		10	0	484	60	0.02907
Crucigenia		112	0	5426	30	0.16279
Dictyosphaerium		38	0	1841	20	0.03682
Didymocystis		8	0	388	41	0.01589
Dimorphococcus		18	0	872	20	0.01744
Elakatothrix		1	0	48	45	0.00218
Micractinium		4	0	194	30	0.00581
Monoraphidium (small)		52	0	2519	16	0.04031
Monoraphidium (large)		1	0	48	400	0.01938
Oocystis		88	0	4264	300	1.27907
Pediastrum		0	8	16	60	0.00093
Planctonema		248	0	12016	800	9.61240
Scenedesmus		8	0	388	250	0.09690
Staurastrum		0	2	4	2000	0.00775
Tetraedron		4	0	194	150	0.02907
Tetrastrum		16	0	775	40	0.03101
CRYPTOPHYCEAE						
Cryptomonads		1	0	48	320	0.01550
CYANOPHYCEAE						

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Adam Deliyiannis (signatory)*** DATE: **24/05/2022**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA

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Aphanizomenonaceae family - straight	P	0	52	101	67	0.00675
Cuspidothrix issatschenkoi		0	50	97	57	0.00552
Limnolyngbya		340	0	16473	4.9	0.08072
Planktolyngbya		2310	0	111919	3.8	0.42529
Pseudanabaena		48	0	2326	12.5	0.02907
Synechococcales small (iauv <20)		1410	0	68314	5.25	0.35865

TOTAL BGA	**199230**	**0.90600**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**101**	**0.00675**
TOTAL ALGAE	**229416**	**12.52807**

+ 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: **24/05/2022**
Biologist **Biologist**

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