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. :	7609392 22-60564
LOCALITY :	EM2215131-002
SITE :	DS Tauwitchere
SAMPLE :	Surface
DATE SAMPLED :	8/08/2022
DATE ANALYSED :	12/08/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse algal community was observed, but current combined levels are unlikely to influence water quality.

Sedgewick-Rafter Vol.(ml) 1.0258 **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						
Asterionellopsis		0	4	8	500	0.00390
Aulacoseira		22	0	1072	2860	3.06687
Fragilariaceae		6	0	292	500	0.14623
Pennales (small <20um)		9	0	439	251	0.11011
CHLOROPHYCEAE						
Actinastrum		0	8	16	60	0.00094
Ankistrodesmus		2	0	97	132	0.01287
Chlamydomonads		3	0	146	250	0.03656
Chlorococcoids (<10um)		39	0	1901	60	0.11406
Closterium		0	1	2	4130	0.00805
Crucigenia		24	0	1170	30	0.03509
Dictyosphaerium		12	0	585	20	0.01170
Didymocystis		6	0	292	41	0.01199
Filamentous Green		6	0	292	386	0.11289
Lagerheimia		2	0	97	500	0.04874
Monoraphidium (small)		46	0	2242	16	0.03587
Monoraphidium (large)		0	13	25	400	0.01014
Oocystis		14	0	682	300	0.20472
Planctonema		0	585	1141	800	0.91246
Scenedesmus		20	0	975	250	0.24371
Staurastrum		1	0	49	2000	0.09748
Tetrastrum		16	0	780	40	0.03120
CRYPTOPHYCEAE						
Cryptomonads		23	0	1121	320	0.35874
Cryptomonas		1	0	49	320	0.01560

ANALYST: *Karen Simonsen (signatory)* REVIEWED: *Adam Deliyiannis (signatory)* DATE: **12/08/2022**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA

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. :	7609392 22-60564
LOCALITY :	EM2215131-002
SITE :	DS Tauwitchere
SAMPLE :	Surface
DATE SAMPLED :	8/08/2022
DATE ANALYSED :	12/08/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse algal community was observed, but current combined levels are unlikely to influence water quality.

Sedgewick-Rafter Vol.(ml) 1.0258 **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)**
CYANOPHYCEAE						
Limnolyngbya		44	0	2145	4.9	0.01051
Planktolyngbya		133	0	6483	3.8	0.02463
Pseudanabaena		26	0	1267	12.5	0.01584
Romeria		10	0	487	31	0.01511
Synechococcales small (iauv <20)		48	0	2340	5.25	0.01228
DINOPHYCEAE						
Gymnodiniales (small)		0	1	2	500	0.00097
OTHER PHYTOPLANKTON						
Raphidophytes		1	0	49	7000	0.34120

TOTAL BGA	**12722**	**0.07838**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**26246**	**6.05047**

+ 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 (signatory)*** DATE: **12/08/2022**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA