

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7086222 21-35420
LOCALITY :	EM2113768-015
SITE :	DS Tauwitschere
SAMPLE :	Surface
DATE SAMPLED :	14/07/2021
DATE ANALYSED :	19/07/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A highly diverse algal community was observed with excessive levels of BGA noted. Water quality will be impaired.

Sedgewick-Rafter Vol.(ml)	1.0272	Toxigenic (T) or Potentially toxic (P)	- 200x	- 100x	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
Concentration	1 : 1	*	20	500			
Magnification							
Fields							

BACILLARIOPHYCEAE

Centrales	4	0	195	200	0.03894
Naviculales	2	0	97	1400	0.13629
Nitzschia	1	0	49	400	0.01947
Pennales	4	0	195	300	0.05841
Pennales (small <20um)	1	0	49	251	0.01222

CHLOROPHYCEAE

Chlorococcoids (<10um)	40	0	1947	60	0.11682
Closterium	0	10	19	4130	0.08041
Colonial green (cells)	10	0	487	100	0.04868
Crucigenia	136	0	6620	30	0.19860
Dictyosphaerium	12	0	584	20	0.01168
Didymocystis	6	0	292	41	0.01197
Dimorphococcus	18	0	876	20	0.01752
Eremosphaera	0	8	16	700	0.01090
Lagerheimia	4	0	195	500	0.09735
Monoraphidium	65	0	3164	900	2.84755
Nephrocystium	4	0	195	200	0.03894
Oocystis	195	0	9492	300	2.84755
Pediastrum	24	0	1168	60	0.07009
Planctonema	290	0	14116	800	11.29283
Scenedesmus	31	0	1509	250	0.37724
Schroederia	1	0	49	550	0.02677
Staurostrum	1	0	49	2000	0.09735
Tetraedron	1	0	49	150	0.00730
Tetrastrum	8	0	389	40	0.01558

ANALYST: **Kirsten Mudie (signatory)**
Biologist

REVIEWED: **Adam Deliyannis**
Biologist

DATE: **19/07/2021**

METHOD NO.: MB010/MW024VCA

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CRYPTOPHYCEAE

<i>Cryptomonads</i>		7	0	341	320	0.10903
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CYANOPHYCEAE

<i>Limnolyngbya</i>		4610	0	224396	4.9	1.09954
<i>Planktolyngbya</i>		1930	0	93945	3.8	0.35699
<i>Synechococcales small (iauv <20)</i>		10960	0	533489	5.25	2.80082

EUGLENOPHYCEAE

<i>Eutreptia</i>		1	0	49	1000	0.04868
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TOTAL BGA	851830	4.25735
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	894021	22.89554

+ 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.