

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.:	7545129 22-57032					
LOCALITY:	EM2213883-002					
SITE:	DS Tauwitchere					
SAMPLE:	Surface					
DATE SAMPLED :	20/07/2022					
DATE ANALYSED :	25/07/2022					
SAMPLED BY:	Sample analysed as received					

COMMENTS: + A highly diverse algal community was observed with current algal levels that may mildly impair water quality.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0274 1 : 1	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			4	0	195	2860	0.55675
Centrales			38	0	1849	200	0.36987
Pennales			4	0	195	300	0.05840
Pennales (small <20um)			12	0	584	251	0.14658
CHLOROPHYCEAE							
Ankistrodesmus			2	0	97	132	0.01285
Chlamydomonads			2	0	97	250	0.02433
Chlorococcoids (<10um)			122	0	5937	60	0.35624
Closterium			0	1	2	4130	0.00804
Colonial green (cells)			0	42	82	100	0.00818
Cosmarium			1	0	49	500	0.02433
Crucigenia			152	0	7397	30	0.22192
Dictyosphaerium			38	0	1849	20	0.03699
Didymocystis			12	0	584	41	0.02394
Dimorphococcus			6	0	292	20	0.00584
Lagerheimia			2	0	97	500	0.04867
Micractinium			4	0	195	30	0.00584
Monoraphidium (small)			48	0	2336	16	0.03738
Monoraphidium (large)			2	0	97	400	0.03893
Oocystis			36	0	1752	300	0.52560
Pediastrum			8	0	389	60	0.02336
Planctonema			104	0	5061	800	4.04906
Scenedesmus			20	0	973	250	0.24333
Schroederia			1	0	49	550	0.02677
Staurastrum			1	0	49	2000	0.09733

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

REVIEWED: Adam Deliyiannis (signatory)

Biologist

DATE: **26/07/2022**



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





7.40276

ALGAL REPORT

CLIENT:	Australian Laboratory Services Pty Ltd SA					
LABORATORY NO./BATCH NO. :	7545129 22-57032					
LOCALITY:	EM2213883-002					
SITE:	DS Tauwitchere					
SAMPLE:	Surface					
DATE SAMPLED :	20/07/2022					
DATE ANALYSED :	25/07/2022					
SAMPLED BY:	Sample analysed as received					

COMMENTS: + A highly diverse algal community was observed with current algal levels that may mildly impair water quality.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0274 1 : 1	Toxigenic (T) or Potentially toxic (P)	- 200x 20	- 100x 500	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
Tetraedron			10	0	487	150	0.07300
Tetrastrum			8	0	389	40	0.01557
CRYPTOPHYCEAE							
Cryptomonads			12	0	584	320	0.18688
CYANOPHYCEAE							
Aphanizomenonaceae family - straight		Р	10	0	487	67	0.03261
Limnolyngbya			378	0	18396	4.9	0.09014
Planktolyngbya			190	0	9247	3.8	0.03514
Synechococcales small (iauv <20)			74	0	3601	5.25	0.01891
TOTAL BGA TOTAL TOXIGENIC BGA TOTAL POTENTIALLY TOXIC BGA				31731 0 487		0.17679 0.00000 0.03261	

⁺ The comments are discretionary and are for the purpose of helping to understand WQ implications. The comments are not accredited by NATA.

TOTAL ALGAE

The biovolume values reported are those derived from documented information, including scientific literature. These are average values and not those measured on individual samples.

63398

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: 26/07/2022

Biologist Biologist

METHOD NO.: MB010/MW024VCA Page 2 of 2