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. :	7791223 22-70934
LOCALITY :	EM2218950-002
SITE :	DS Tauwitchere
SAMPLE :	Surface
DATE SAMPLED :	28/09/2022
DATE ANALYSED :	4/10/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A highly diverse community of algal taxa were observed. Curent levels are unlikely to impair water quality.

Sedgewick-Rafter Vol.(ml) 1.0194 **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						
Acanthoceras		1	0	49	4604	0.22582
Aulacoseira		190	0	9319	2860	26.65293
Centrales		18	0	883	200	0.17657
Pennales		3	0	147	300	0.04414
Pennales (small <20um)		2	0	98	251	0.02462
CHLOROPHYCEAE						
Chlorococcoids (<10um)		15	0	736	60	0.04414
Crucigenia		16	0	785	30	0.02354
Dictyosphaerium		0	44	86	20	0.00173
Elakatothrix		1	0	49	45	0.00221
Monoraphidium (small)		5	0	245	16	0.00392
Monoraphidium (large)		2	0	98	400	0.03924
Oocystis		6	0	294	300	0.08829
Pediastrum		4	0	196	60	0.01177
Planctonema		20	0	981	800	0.78478
Scenedesmus		6	0	294	250	0.07357
Tetraedron		2	0	98	150	0.01471
CRYPTOPHYCEAE						
Cryptomonads		1	0	49	320	0.01570
CYANOPHYCEAE						
Aphanizomenonaceae family - straight	P	0	27	53	67	0.00355
Limnolyngbya		69	0	3384	4.9	0.01658
Planktolyngbya		40	0	1962	3.8	0.00746
Pseudanabaena		62	0	3041	12.5	0.03801
Romeria		5	0	245	31	0.00760

ANALYST: *Adam Deliyiannis (signatory)* REVIEWED: *Louise Ungemach (signatory)* DATE: **05/10/2022**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA

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OTHER PHYTOPLANKTON						
Other small flagellates		5	0	245	80	0.01962

TOTAL BGA	**8685**	**0.07320**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**53**	**0.00355**
TOTAL ALGAE	**23337**	**28.32052**

+ 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.***

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