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. :	7241918 21-55807
LOCALITY :	EM2123012-019
SITE :	Tilley Swamp Drain D/S Nth Out
SAMPLE :	Surface
DATE SAMPLED :	16/11/2021
DATE ANALYSED :	23/11/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse range of algal taxa was observed. Current levels are unlikely to impact water quality.

Sedgewick-Rafter Vol.(ml) 1.0303 **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						
Amphora		0	1	2	500	0.00097
Naviculales		1	0	49	1400	0.06794
Pennales		3	0	146	300	0.04368
CHLOROPHYCEAE						
Ankistrodesmoideae		2	0	97	132	0.01281
Chlorococcoids (<10um)		17	0	825	60	0.04950
Lagerheimia		2	0	97	500	0.04853
Oocystis		3	0	146	300	0.04368
CYANOPHYCEAE						
Planktolyngbya		15	0	728	3.8	0.00277
Pseudanabaena		0	25	49	12.5	0.00061
Synechococcales small (iauv <20)		588	0	28535	5.25	0.14981
DINOPHYCEAE						
Dinoflagellates		0	1	2	20000	0.03882
Gymnodiniales		0	2	4	2000	0.00776
OTHER PHYTOPLANKTON						
Other small flagellates		4	0	194	80	0.01553

TOTAL BGA	**29312**	**0.15318**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**30874**	**0.48241**

ANALYST: *Adam Deliyiannis (signatory)* REVIEWED: *Kirsten Mudie (signatory)* DATE: **23/11/2021**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA

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Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			

+ 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: *Adam Deliyiannis (signatory)* REVIEWED: *Kirsten Mudie (signatory)* DATE: **23/11/2021**

Biologist **Biologist**

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