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. :	7218535 21-52583
LOCALITY :	EM2121437-019
SITE :	Tilley Swamp Drain
SAMPLE :	Surface
DATE SAMPLED :	26/10/2021
DATE ANALYSED :	9/11/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse algal community was observed with current levels unlikely to impair water quality.

Sedgewick-Rafter Vol.(ml) 1.024 **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						
Centrales		1	0	49	200	0.00977
Centrales - (5-10um)		4	0	195	80	0.01563
Chaetoceros		1	0	49	200	0.00977
Entomoneis		0	3	6	1000	0.00586
Pennales		3	0	146	300	0.04395
Pennales (small <20um)		2	0	98	251	0.02451
CHLOROPHYCEAE						
Ankistrodesmoideae		96	0	4688	132	0.61875
Chlamydomonads		1	0	49	250	0.01221
Chlorococcoids (<10um)		10	0	488	60	0.02930
Colonial green (cells)		28	0	1367	100	0.13672
Monoraphidium		36	0	1758	900	1.58203
Oocystis		2	0	98	300	0.02930
CRYPTOPHYCEAE						
Cryptomonads		1	0	49	320	0.01563
CYANOPHYCEAE						
Pseudanabaena		12	0	586	12.5	0.00732
Snowella		95	0	4639	9	0.04175
Synechococcales small (iauv <20)		1680	0	82031	5.25	0.43066
DINOPHYCEAE						
Gymnodiniales (small)		1	0	49	500	0.02441
OTHER PHYTOPLANKTON						
Other small flagellates		3	0	146	80	0.01172

ANALYST: *Kirsten Mudie (signatory)* REVIEWED: *Adam Deliyiannis* DATE: **10/11/2021**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA

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		Toxigenic (T) or Potentially toxic (P)			Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
Sedgewick-Rafter Vol.(ml)	1.024						
Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			
TOTAL BGA					**87256**		**0.47974**
TOTAL TOXIGENIC BGA					**0**		**0.00000**
TOTAL POTENTIALLY TOXIC BGA					**0**		**0.00000**
TOTAL ALGAE					**96491**		**3.04927**

+ 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: *Kirsten Mudie (signatory)* REVIEWED: *Adam Deliyiannis* DATE: **10/11/2021**
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