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. :	6956322 21-18638
LOCALITY :	EM2106129_019
SITE :	Tilley Swamp Drain U/S Mor
SAMPLE :	Surface
DATE SAMPLED :	7/04/2021
DATE ANALYSED :	13/04/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A moderately diverse algal community was observed. Combined levels are unlikely to affect water quality.

Sedgewick-Rafter Vol.(ml) 1.0169 **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						
Naviculales		5	0	246	1400	0.34418
Pennales		1	0	49	300	0.01475
Pennales (small <20um)		4	0	197	251	0.04937
CHLOROPHYCEAE						
Botryococcus		0	80	157	98	0.01542
Chlorococcoids (<10um)		42	0	2065	60	0.12391
Dictyosphaerium		4	0	197	20	0.00393
CRYPTOPHYCEAE						
Cryptomonads		0	1	2	320	0.00063
CYANOPHYCEAE						
Chroococcus (small cells)		0	7	14	12	0.00017
Gomphosphaeria (large)		0	38	75	28	0.00209
Komvophoron		0	8	16	33	0.00052
Planktolyngbya		5	0	246	3.8	0.00093
Pseudanabaena		4	0	197	12.5	0.00246
Synechococcales small (iauv <20)		90	0	4425	5.25	0.02323
DINOPHYCEAE						
Peridiniales		0	1	2	5000	0.00983
OTHER PHYTOPLANKTON						
Other small flagellates		3	0	148	80	0.01180

TOTAL BGA	**4973**	**0.02940**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**8036**	**0.60322**

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Lauren Minett (signatory)*** DATE: **15/04/2021**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA

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. :	6956322 21-18638
LOCALITY :	EM2106129_019
SITE :	Tilley Swamp Drain U/S Mor
SAMPLE :	Surface
DATE SAMPLED :	7/04/2021
DATE ANALYSED :	13/04/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A moderately diverse algal community was observed. Combined levels are unlikely to affect water quality.

		Toxigenic (T) or Potentially toxic (P)			Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
Sedgewick-Rafter Vol.(ml)	1.0169						
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: ***Kirsten Mudie (signatory)*** REVIEWED: ***Lauren Minett (signatory)*** DATE: **15/04/2021**

Biologist **Biologist**

METHOD NO.: MB010/MW024VCA