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. :	6796584 20-56146
LOCALITY :	EM2021368_009
SITE :	Tilley Swamp Drain
SAMPLE :	Surface
DATE SAMPLED :	30/11/2020
DATE ANALYSED :	3/12/2020
SAMPLED BY :	Sample analysed as received

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

Sedgewick-Rafter Vol.(ml) 1.036 **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
Centrales		6	0	290	200	0.05792
Cocconeis		1	0	48	450	0.02172
Fragilariaceae		6	0	290	500	0.14479
Naviculales		0	1	2	1400	0.00270
Pennales		3	0	145	300	0.04344
Pennales (small <20um)		1	0	48	251	0.01211
CHLOROPHYCEAE						
Ankistrodesmus		5	0	241	132	0.03185
Chlamydomonads		2	0	97	250	0.02413
Chlorococcoids (<10um)		31	0	1496	60	0.08977
Colonial green (cells)		0	24	46	100	0.00463
Lagerheimia		9	0	434	500	0.21718
Oocystis		1	0	48	300	0.01448
Scenedesmus		2	0	97	250	0.02413
Selenastrum		17	0	820	250	0.20512
CRYPTOPHYCEAE						
Cryptomonads		1	0	48	320	0.01544
CYANOPHYCEAE						
Synechococcales small (iauv <20)		240	0	11583	5.25	0.06081
Synechococcales large (iauv 20-86)		0	2	4	54	0.00021
DINOPHYCEAE						
Gymnodiniales		1	0	48	2000	0.09653
Gymnodiniales (small)		1	0	48	500	0.02413
Peridiniales		0	1	2	5000	0.00965

ANALYST: *Kirsten Mudie (signatory)* REVIEWED: *Adam Deliyiannis* DATE: **04/12/2020**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA

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OTHER PHYTOPLANKTON						
Other small flagellates		2	0	97	80	0.00772

TOTAL BGA	**11587**	**0.06102**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**15934**	**1.10943**

+ 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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