ALS Water
22 Dalmore Drive Scoresby 3179
Tel. 03 8756 8183 Fax. 03 9763 1862

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6695267 20-42534
LOCALITY :	EM2015594-019
SITE :	Tilley Swamp Drain U/S
SAMPLE :	Surface
DATE SAMPLED :	9/09/2020
DATE ANALYSED :	11/09/2020
SAMPLED BY :	Sample analysed as received

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

Sedgewick-Rafter Vol.(ml) 1.0291 **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		7	0	340	200	0.06802
Naviculales		1	0	49	1400	0.06802
Pennales		0	1	2	300	0.00058
Pennales (small <20um)		1	0	49	251	0.01220
CHLOROPHYCEAE						
Ankistrodesmoideae		73	0	3547	132	0.46818
Chlamydomonads		7	0	340	250	0.08503
Chlorococcoids (<10um)		8	0	389	60	0.02332
Selenastrum		3	0	146	250	0.03644
CRYPTOPHYCEAE						
Cryptomonads		1	0	49	320	0.01555
CYANOPHYCEAE						
Planktolyngbya		12	0	583	3.8	0.00222
Synechococcales small (iauv <20)		408	0	19823	5.25	0.10407
DINOPHYCEAE						
Dinoflagellates		0	1	2	20000	0.03887
OTHER PHYTOPLANKTON						
Other small flagellates		27	0	1312	80	0.10495
Prasinophytes		2	0	97	100	0.00972

TOTAL BGA	**20406**	**0.10629**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**26728**	**1.03715**

ANALYST: *Adam Deliyiannis* **Biologist**
REVIEWED: *Kirsten Mudie (signatory)* **Biologist**
DATE: **14/09/2020**

METHOD NO.: MB010/MW024CV

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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)	1.0291						
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* **Biologist**

REVIEWED: *Kirsten Mudie (signatory)* **Biologist**

DATE: **14/09/2020**

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