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. :	7484454 22-53362
LOCALITY :	EM2212385-007
SITE :	Tilley D/S Nth O/L
SAMPLE :	Surface
DATE SAMPLED :	30/06/2022
DATE ANALYSED :	5/07/2022
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) 1.0099 **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 - (5-10um)		2	0	99	80	0.00792
Entomoneis		0	1	2	1000	0.00198
Pennales		1	0	50	300	0.01485
CHLOROPHYCEAE						
Chlamydomonads		1	0	50	250	0.01238
Chlorococcoids (<10um)		4	0	198	60	0.01188
Lagerheimia		0	1	2	500	0.00099
Oocystis		2	0	99	300	0.02971
Scenedesmus		0	8	16	250	0.00396
Tetraedron		2	0	99	150	0.01485
CYANOPHYCEAE						
Pseudanabaena		0	2	4	12.5	0.00005
Synechococcales small (iauv <20)		30	0	1485	5.25	0.00780
DINOPHYCEAE						
Gymnodiniales		0	4	8	2000	0.01584
Peridiniales		0	1	2	5000	0.00990
OTHER PHYTOPLANKTON						
Other small flagellates		1	0	50	80	0.00396
Prasinophytes		0	1	2	100	0.00020

TOTAL BGA	**1489**	**0.00785**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**2166**	**0.13628**

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Louise Ungemach (signatory)*** DATE: **07/07/2022**
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: *Kirsten Mudie (signatory)* **Biologist**

REVIEWED: *Louise Ungemach (signatory)* **Biologist**

DATE: **07/07/2022**

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