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. :	7241919 21-55807
LOCALITY :	EM2123012-020
SITE :	Tilley U/S Morella
SAMPLE :	Surface
DATE SAMPLED :	16/11/2021
DATE ANALYSED :	23/11/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed. Levels of low biovolume BGA Synechococcales will impact water quality.

Sedgewick-Rafter Vol.(ml) 1.0242 **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		3	0	146	200	0.02929
Pennales		1	0	49	300	0.01465
Pennales (small <20um)		2	0	98	251	0.02451
CHLOROPHYCEAE						
Ankistrodesmoideae		6	0	293	132	0.03866
Chlorococcoids (<10um)		16	0	781	60	0.04687
Colonial green (cells)		12	0	586	100	0.05858
Oocystis		4	0	195	300	0.05858
CHRYSOPHYCEAE						
Other Chrysophyceae		1	0	49	350	0.01709
CYANOPHYCEAE						
Planktolyngbya		10	0	488	3.8	0.00186
Synechococcales small (iauv <20)		1190	0	58094	5.25	0.30499
DINOPHYCEAE						
Gymnodiniales		1	0	49	2000	0.09764
OTHER PHYTOPLANKTON						
Other small flagellates		5	0	244	80	0.01953

TOTAL BGA	**58582**	**0.30685**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**61072**	**0.71224**

ANALYST: ***Adam Deliyiannis (signatory)*** REVIEWED: ***Kirsten Mudie (signatory)*** DATE: **23/11/2021**
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: *Adam Deliyiannis (signatory)* REVIEWED: *Kirsten Mudie (signatory)* DATE: **23/11/2021**

Biologist **Biologist**

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