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. :	7064965 21-32332
LOCALITY :	EM2112381-010
SITE :	Tilley U/S Morella
SAMPLE :	Surface
DATE SAMPLED :	28/06/2021
DATE ANALYSED :	1/07/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A moderately diverse algal community was observed, however combined levels are insufficient to influence water quality.

Sedgewick-Rafter Vol.(ml) 1.0235 **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						
Cyclotella		0	3	6	3483	0.02042
Fragilariaceae		3	0	147	500	0.07328
Nitzschia		1	0	49	400	0.01954
Pennales		4	0	195	300	0.05862
Pleurosigma		0	1	2	2000	0.00391
CHLOROPHYCEAE						
Chlamydomonads		1	0	49	250	0.01221
Chlorococcoids (<10um)		14	0	684	60	0.04104
Cosmarium		0	1	2	500	0.00098
CYANOPHYCEAE						
Leptolyngbya		0	55	107	2.36	0.00025
Limnothrix/Geitlerinema/Anagnostidinema	P	0	120	234	17.5	0.00410
Oscillatoriales (iauv 1-100)	P	0	21	41	60.8	0.00249
Planktolyngbya		12	0	586	3.8	0.00223
Pseudanabaena		0	9	18	12.5	0.00022
Synechococcales small (iauv <20)		4	0	195	5.25	0.00103
DINOPHYCEAE						
Gymnodiniales (small)		0	1	2	500	0.00098
Peridiniales		0	1	2	5000	0.00977
Prorocentrum		1	0	49	3000	0.14656
OTHER PHYTOPLANKTON						
Other small flagellates		2	0	98	80	0.00782
Prasinophytes		3	0	147	100	0.01466

ANALYST: ***Karen Simonsen (signatory)*** REVIEWED: ***Louise Ungemach (signatory)*** DATE: **02/07/2021**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA

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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)	1.0235						
Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			

TOTAL BGA	**1181**	**0.01033**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**275**	**0.00660**
TOTAL ALGAE	**2613**	**0.42009**

+ 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: ***Karen Simonsen (signatory)*** REVIEWED: ***Louise Ungemach (signatory)*** DATE: **02/07/2021**

Biologist **Biologist**

METHOD NO.: MB010/MW024VCA