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. :	7056272 21-31436
LOCALITY :	EM2111820-010
SITE :	Tilley U/S Morella
SAMPLE :	Surface
DATE SAMPLED :	21/06/2021
DATE ANALYSED :	24/06/2021
SAMPLED BY :	Sample analysed as received

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

Sedgewick-Rafter Vol.(ml) 1.0274 **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 - (5-10um)		0	3	6	80	0.00047
Cocconeis		0	2	4	450	0.00175
Cyclotella		0	1	2	3483	0.00678
Entomoneis		0	1	2	1000	0.00195
Nitzschia		0	3	6	400	0.00234
Pennales		4	0	195	300	0.05840
Pennales (small <20um)		0	9	18	251	0.00440
CHLOROPHYCEAE						
Chlamydomonads		0	6	12	250	0.00292
Chlorococcoids (<10um)		31	0	1509	60	0.09052
Chlorolobion		1	0	49	70	0.00341
Closterium		0	1	2	4130	0.00804
CYANOPHYCEAE						
Planktolyngbya		10	0	487	3.8	0.00185
Pseudanabaena		0	21	41	12.5	0.00051
Synechococcales small (iauv <20)		41	0	1995	5.25	0.01048
DINOPHYCEAE						
Prorocentrum		0	1	2	3000	0.00584
OTHER PHYTOPLANKTON						
Other small flagellates		3	0	146	80	0.01168

ANALYST: ***Karen Simonsen (signatory)*** REVIEWED: ***Louise Ungemach (signatory)*** DATE: **25/06/2021**
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)	1.0274						
Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			

TOTAL BGA	**2523**	**0.01284**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**4478**	**0.21229**

+ 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: **25/06/2021**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA