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. :	7007889 21-25384
LOCALITY :	EM2108900_020
SITE :	Villa de Yumpa
SAMPLE :	Surface
DATE SAMPLED :	12/05/2021
DATE ANALYSED :	20/05/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A moderately diverse algal community was observed with small greens and BGA numerous. Water quality may be mildly impaired.

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		1	0	50	200	0.00990
Nitzschia		84	0	4159	400	1.66353
Pennales		16	0	792	300	0.23765
Pennales (small <20um)		8	0	396	251	0.09942
CHLOROPHYCEAE						
Ankistrodesmoideae		92	0	4555	132	0.60125
Chlorococcoids (<10um)		860	0	42578	60	2.55471
CYANOPHYCEAE						
Pseudanabaena		6	0	297	12.5	0.00371
Synechococcales small (iauv <20)		4060	0	201010	5.25	1.05530
DINOPHYCEAE						
Dinoflagellates		0	1	2	20000	0.03961
Gymnodiniales		8	0	396	2000	0.79216
Gymnodiniales (small)		5	0	248	500	0.12377
OTHER PHYTOPLANKTON						
Other small flagellates		36	0	1782	80	0.14259
Prasinophytes		1	0	50	100	0.00495

TOTAL BGA	**201307**	**1.05902**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**256315**	**7.32855**

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Adam Deliyiannis*** DATE: **20/05/2021**
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: *Kirsten Mudie (signatory)* REVIEWED: *Adam Deliyiannis* DATE: **20/05/2021**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA