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. :	7056282 21-31436
LOCALITY :	EM2111820-020
SITE :	Villa de Yumpa
SAMPLE :	Surface
DATE SAMPLED :	21/06/2021
DATE ANALYSED :	25/06/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed and low biovolume BGA Synechococcales were most numerous. Current levels are likely to impair water quality.

Sedgewick-Rafter Vol.(ml) 1.0303 **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						
Naviculales		1	0	49	1400	0.06794
Nitzschia		25	0	1213	400	0.48530
Pennales		2	0	97	300	0.02912
Pennales (small <20um)		2	0	97	251	0.02436
Pleurosigma		0	3	6	2000	0.01165
CHLOROPHYCEAE						
Ankistrodesmoideae		392	0	19024	132	2.51111
Chlorococcoids (<10um)		685	0	33243	60	1.99456
CYANOPHYCEAE						
Synechococcales small (iauv <20)		23200	0	1125886	5.25	5.91090
DINOPHYCEAE						
dinoflagellates		0	1	2	20000	0.03882
Gymnodiniales		1	0	49	2000	0.09706
Gymnodiniales (small)		17	0	825	500	0.41250
OTHER PHYTOPLANKTON						
Other small flagellates		21	0	1019	80	0.08153
Prasinophytes		2	0	97	100	0.00971

TOTAL BGA	**1125886**	**5.91090**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**1181607**	**11.67456**

ANALYST: *Adam Deliyiannis* **Biologist**

REVIEWED: *Karen Simonsen (signatory)* **Biologist**

DATE: **25/06/2021**

METHOD NO.: MB010/MW024VCA

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Sedgewick-Rafter Vol.(ml)	1.0303	**Toxigenic (T) or Potentially toxic (P)**			**Total Cell Count (cells/mL)**	**Individual Algal Unit Volume (um3)**	**Total Biovolume (mm3/L)**
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* **Biologist**

REVIEWED: *Karen Simonsen (signatory)* **Biologist**

DATE: **25/06/2021**

METHOD NO.: MB010/MW024VCA