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. :	6873992 21-07778
LOCALITY :	EM2101680_010
SITE :	Villa de Yumpa
SAMPLE :	Surface
DATE SAMPLED :	3/02/2021
DATE ANALYSED :	8/02/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A moderately diverse algal community was observed with high levels of small BGA and greens observed. Water quality is likely to be impaired. Health concerns may be warranted.

Sedgewick-Rafter Vol.(ml) 1.0291 **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	2	4	500	0.00194
Entomoneis		0	1	2	1000	0.00194
Nitzschia		59	0	2867	400	1.14663
Pennales		1	0	49	300	0.01458
Pennales (small <20um)		14	0	680	251	0.17073
Pleurosigma		0	5	10	2000	0.01943
CHLOROPHYCEAE						
Ankistrodesmoideae		160	0	7774	132	1.02614
Chlorococcoids (<10um)		2380	0	115635	60	6.93810
CYANOPHYCEAE						
Synechococcales small (iauv <20)		8800	0	427558	5.25	2.24468
OTHER PHYTOPLANKTON						
Other small flagellates		40	0	1943	80	0.15548

TOTAL BGA	**427558**	**2.24468**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**556522**	**11.71966**

+ 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: **09/02/2021**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA