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. :	7218538 21-52583
LOCALITY :	EM2121437-022
SITE :	Villa de Yumpa
SAMPLE :	Surface
DATE SAMPLED :	26/10/2021
DATE ANALYSED :	9/11/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A moderately diverse algal community was observed with excessive levels of small BGA likely to impair water quality.

Sedgewick-Rafter Vol.(ml) 1.0145 **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	49	200	0.00986
Pennales		1	0	49	300	0.01479
Pennales (small <20um)		4	0	197	251	0.04948
Pleurosigma		0	1	2	2000	0.00394
CHLOROPHYCEAE						
Ankistrodesmoideae		540	0	26614	132	3.51306
Chlorococcoids (<10um)		1240	0	61114	60	3.66683
CRYPTOPHYCEAE						
Cryptomonads		1	0	49	320	0.01577
CYANOPHYCEAE						
Synechococcales small (iauv <20)		32960	0	1624446	5.25	8.52834
DINOPHYCEAE						
Gymnodiniales		10	0	493	2000	0.98571
Gymnodiniales (small)		6	0	296	500	0.14786

TOTAL BGA	**1624446**	**8.52834**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**1713309**	**16.93563**

+ 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: **10/11/2021**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA