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. :	7116654 21-39298
LOCALITY :	EM2115770-010
SITE :	Villa de Yumpa
SAMPLE :	Surface
DATE SAMPLED :	9/08/2021
DATE ANALYSED :	13/08/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed. High levels of the BGA Synechococcales are likely to impact water quality.

Sedgewick-Rafter Vol.(ml) 1.0242 **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						
Nitzschia		6	0	293	400	0.11716
Pennales		7	0	342	300	0.10252
Pennales (small <20um)		5	0	244	251	0.06127
Pleurosigma		0	4	8	2000	0.01562
CHLOROPHYCEAE						
Ankistrodesmoideae		268	0	13083	132	1.72701
Chlorococcoids (<10um)		63	0	3076	60	0.18453
CYANOPHYCEAE						
Synechococcales small (iauv <20)		19200	0	937317	5.25	4.92091
DINOPHYCEAE						
Dinoflagellates		0	4	8	20000	0.15622
Gymnodiniales		0	1	2	2000	0.00391
Gymnodiniales (small)		3	0	146	500	0.07323
OTHER PHYTOPLANKTON						
Other small flagellates		53	0	2587	80	0.20699
Prasinophytes		2	0	98	100	0.00976
Raphidophytes		0	2	4	7000	0.02734

TOTAL BGA	**937317**	**4.92091**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**957208**	**7.60647**

ANALYST: ***Adam Deliyiannis*** **Biologist**

REVIEWED: ***Louise Ungemach (signatory)*** **Biologist**

DATE: **13/08/2021**

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: *Adam Deliyiannis* **Biologist**

REVIEWED: *Louise Ungemach (signatory)* **Biologist**

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