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. :	7548887 22-57206
LOCALITY :	EM2213882-004
SITE :	Villa de Yumpa
SAMPLE :	Surface
DATE SAMPLED :	21/07/2022
DATE ANALYSED :	26/07/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa were observed. Current levels are likely to impact water quality.

Sedgewick-Rafter Vol.(ml) 1.0744 **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		1	0	47	500	0.02327
Naviculales		0	1	2	1400	0.00261
Nitzschia		1	0	47	400	0.01862
Pennales		0	1	2	300	0.00056
Pennales (small <20um)		1	0	47	251	0.01168
CHLOROPHYCEAE						
Ankistrodesmoideae		660	0	30715	132	4.05436
Monoraphidium (small)		3	0	140	16	0.00223
CYANOPHYCEAE						
Planktolyngbya		65	0	3025	3.8	0.01149
Synechococcales small (iauv <20)		11760	0	547282	5.25	2.87323
DINOPHYCEAE						
Gymnodiniales		12	0	558	2000	1.11690
Gymnodiniales (small)		9	0	419	500	0.20942
Peridiniales		1	0	47	5000	0.23269
OTHER PHYTOPLANKTON						
Other small flagellates		45	0	2094	80	0.16754
Prasinophytes		4	0	186	100	0.01862

TOTAL BGA	**550307**	**2.88473**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**584611**	**8.74321**

ANALYST: ***Adam Deliyiannis (signatory)*** REVIEWED: ***Louise Ungemach (signatory)*** DATE: **27/07/2022**
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: *Adam Deliyiannis (signatory)* REVIEWED: *Louise Ungemach (signatory)* DATE: **27/07/2022**

Biologist **Biologist**

METHOD NO.: MB010/MW024VCA