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. :	7281163 21-59669
LOCALITY :	EM2125413-022
SITE :	Villa de Yumpa
SAMPLE :	Surface
DATE SAMPLED :	14/12/2021
DATE ANALYSED :	20/12/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + Excessive levels of small BGA will impair water quality and may pose a health risk.

Sedgewick-Rafter Vol.(ml) 1.0105 **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	0.06927
Nitzschia		33	0	1633	400	0.65314
Pennales		1	0	49	300	0.01484
Pennales (small <20um)		1520	0	75210	251	18.87778
CHLOROPHYCEAE						
Ankistrodesmoideae		2840	0	140524	132	18.54923
Chlorococcoids (<10um)		2800	0	138545	60	8.31272
Oocystis		8	0	396	300	0.11875
CRYPTOPHYCEAE						
Cryptomonads		1	0	49	320	0.01583
CYANOPHYCEAE						
Synechococcales small (iauv <20)		27020	0	1336962	5.25	7.01905
DINOPHYCEAE						
Gymnodiniales		31	0	1534	2000	3.06779
Gymnodiniales (small)		15	0	742	500	0.37110
OTHER PHYTOPLANKTON						
Other small flagellates		1	0	49	80	0.00396

TOTAL BGA	**1336962**	**7.01905**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**1695742**	**57.07348**

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Adam Deliyiannis (signatory)*** DATE: **22/12/2021**
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: *Kirsten Mudie (signatory)* REVIEWED: *Adam Deliyiannis (signatory)* DATE: **22/12/2021**
Biologist **Biologist**

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