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. :	6933883 21-15798
LOCALITY :	EM2104707-020
SITE :	Villa de Yumpa
SAMPLE :	Surface
DATE SAMPLED :	17/03/2021
DATE ANALYSED :	22/03/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed with small greens and BGA most numerous. Current levels may impact water quality.

Sedgewick-Rafter Vol.(ml) 1.032 **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	48	500	0.02422
Centrales		1	0	48	200	0.00969
Nitzschia		43	0	2083	400	0.83333
Pennales		6	0	291	300	0.08721
Pennales (small <20um)		1	0	48	251	0.01216
CHLOROPHYCEAE						
Ankistrodesmoideae		885	0	42878	132	5.65988
Chlamydomonads		1	0	48	250	0.01211
Chlorococcoids (<10um)		1100	0	53295	60	3.19767
CHRYSOPHYCEAE						
Other Chrysophyceae		5	0	242	350	0.08479
CRYPTOPHYCEAE						
Cryptomonads		1	0	48	320	0.01550
CYANOPHYCEAE						
Planktolyngbya		21	0	1017	3.8	0.00387
Pseudanabaena		0	18	35	12.5	0.00044
Synechococcales small (iauv <20)		10280	0	498062	5.25	2.61483
DINOPHYCEAE						
Gymnodiniales (small)		7	0	339	500	0.16957
Peridiniales		0	1	2	5000	0.00969
OTHER PHYTOPLANKTON						
Other small flagellates		20	0	969	80	0.07752
Prasinophytes		1	0	48	100	0.00484

ANALYST: *Adam Deliyiannis*
Biologist

REVIEWED: *Louise Ungemach (signatory)*
Biologist

DATE: **23/03/2021**

METHOD NO.: MB010/MW024VCA

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		Toxigenic (T) or Potentially toxic (P)			Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
Sedgewick-Rafter Vol.(ml)	1.032						
Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			
TOTAL BGA					**499114**		**2.61913**
TOTAL TOXIGENIC BGA					**0**		**0.00000**
TOTAL POTENTIALLY TOXIC BGA					**0**		**0.00000**
TOTAL ALGAE					**599501**		**12.81734**

+ 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**

DATE: **23/03/2021**

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