ALS Water
22 Dalmore Drive Scoresby 3179
Tel. 03 8756 8183 Fax. 03 9763 1862

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6695258 20-42534
LOCALITY :	EM2015594-010
SITE :	Villa de Yumpa
SAMPLE :	Surface
DATE SAMPLED :	9/09/2020
DATE ANALYSED :	11/09/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse and numerous community of algal taxa was observed. Current levels may impair water quality.

Sedgewick-Rafter Vol.(ml) 1.0274 **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		5	0	243	500	0.12167
Chaetoceros		0	2	4	200	0.00078
Nitzschia		4	0	195	400	0.07787
Pennales		0	1	2	300	0.00058
Pennales (small <20um)		1	0	49	251	0.01222
Pleurosigma		0	1	2	2000	0.00389
CHLOROPHYCEAE						
Ankistrodesmoideae		224	0	10901	132	1.43897
Chlamydomonads		4	0	195	250	0.04867
Chlorococcoids (<10um)		1600	0	77866	60	4.67199
CRYPTOPHYCEAE						
Cryptomonads		18	0	876	320	0.28032
CYANOPHYCEAE						
Planktolyngbya		66	0	3212	3.8	0.01221
Synechococcales small (iauv <20)		17120	0	833171	5.25	4.37415
DINOPHYCEAE						
Dinoflagellates		2	0	97	20000	1.94666
Gymnodiniales		2	0	97	2000	0.19467
Gymnodiniales (small)		6	0	292	500	0.14600
Peridiniales		5	0	243	5000	1.21666
OTHER PHYTOPLANKTON						
Other small flagellates		39	0	1898	80	0.15184
Prasinophytes		5	0	243	100	0.02433

ANALYST: *Adam Deliyiannis* **Biologist**

REVIEWED: *Kirsten Mudie (signatory)* **Biologist**

DATE: **11/09/2020**

METHOD NO.: MB010/MW024CV

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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)	1.0274						
Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			
TOTAL BGA					**836383**		**4.38635**
TOTAL TOXIGENIC BGA					**0**		**0.00000**
TOTAL POTENTIALLY TOXIC BGA					**0**		**0.00000**
TOTAL ALGAE					**929586**		**14.72347**

+ 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: *Kirsten Mudie (signatory)* **Biologist**

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