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

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6722421 20-45935
LOCALITY :	EM2017172-019
SITE :	Villa de Yumpa
SAMPLE :	Surface
DATE SAMPLED :	30/09/2020
DATE ANALYSED :	8/10/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse and abundant algal community was observed. Combined levels are likely to impair water quality.

Sedgewick-Rafter Vol.(ml)	1.0268						
Concentration	1 : 1						
Magnification		**Toxigenic (T) or Potentially toxic (P)**	- 200x	- 100x	**Total Cell Count (cells/mL)**	**Individual Algal Unit Volume (um3)**	**Total Biovolume (mm3/L)**
Fields		*	20	500			
BACILLARIOPHYCEAE							
Amphora			3	0	146	500	0.07304
Chaetoceros			8	0	390	200	0.07791
Cocconeis			7	0	341	450	0.15339
Gyrosigma			0	2	4	1400	0.00545
Naviculales			1	0	49	1400	0.06817
Nitzschia			2	0	97	400	0.03896
Pennales			1	0	49	300	0.01461
Pennales (small <20um)			13	0	633	251	0.15889
Pleurosigma			1	0	49	2000	0.09739
Tryblionella			0	1	2	1150	0.00224
CHLOROPHYCEAE							
Ankistrodesmoideae			140	0	6817	132	0.89988
Chlorococcoids			6400	0	311648	500	155.82392
CRYPTOPHYCEAE							
Cryptomonads			8	0	390	320	0.12466
CYANOPHYCEAE							
Limnothrix/Geitlerinema/Anagnostidinema		P	6	0	292	17.5	0.00511
Planktolyngbya			80	0	3896	3.8	0.01480
Pseudanabaena			83	0	4042	12.5	0.05052
Synechococcales small (iauv <20)			35840	0	1745228	5.25	9.16245
DINOPHYCEAE							
Gymnodiniales			1	0	49	2000	0.09739
Gymnodiniales (small)			14	0	682	500	0.34086
Peridiniales			8	0	390	5000	1.94780
OTHER PHYTOPLANKTON							

ANALYST: ***Karen Simonsen (signatory)*** REVIEWED: ***Adam Deliyiannis*** DATE: **08/10/2020**

Biologist **Biologist**

METHOD NO.: MB010/MW024CV

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Sedgewick-Rafter Vol.(ml) 1.0268 **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)**
Other small flagellates		4	0	195	80	0.01558
Prasinophytes		2	0	97	100	0.00974

TOTAL BGA	**1753458**	**9.23288**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**292**	**0.00511**
TOTAL ALGAE	**2075486**	**169.18278**

+ 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: ***Karen Simonsen (signatory)*** REVIEWED: ***Adam Deliyiannis*** DATE: **08/10/2020**
Biologist **Biologist**

METHOD NO.: MB010/MW024CV