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

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6681724 20-40763
LOCALITY :	EM2014780_020
SITE :	Villa De Yumpa
SAMPLE :	Surface
DATE SAMPLED :	26/08/2020
DATE ANALYSED :	28/08/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse algal community was observed with small BGA and greens most numerous. Water quality may be impaired.

Sedgewick-Rafter Vol.(ml) 1.0145 **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	49	500	0.02464
Chaetoceros		1	0	49	200	0.00986
Entomoneis		0	1	2	1000	0.00197
Grammatophora		0	1	2	2000	0.00394
Naviculales		0	3	6	1400	0.00828
Nitzschia		3	0	148	400	0.05914
CHLOROPHYCEAE						
Ankistrodesmoideae		176	0	8674	132	1.14500
Chlamydomonads		36	0	1774	250	0.44357
Chlorococcoids (<10um)		1470	0	72449	60	4.34697
CHRYSOPHYCEAE						
Other Chrysophyceae		8	0	394	350	0.13800
CRYPTOPHYCEAE						
Cryptomonads		80	0	3943	320	1.26171
CYANOPHYCEAE						
Planktolyngbya		284	0	13997	3.8	0.05319
Synechococcales small (iauv <20)		2010	0	99064	5.25	0.52008
DINOPHYCEAE						
Dinoflagellates		1	0	49	20000	0.98571
Gymnodiniales		12	0	591	2000	1.18285
Gymnodiniales (small)		20	0	986	500	0.49285
Peridiniales		2	0	99	5000	0.49285
OTHER PHYTOPLANKTON						
Other small flagellates		144	0	7097	80	0.56777
Prasinophytes		8	0	394	100	0.03943

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Adam Deliyiannis*** DATE: **31/08/2020**
Biologist **Biologist**

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)	1.0145						
Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			

TOTAL BGA	**113061**	**0.57327**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**209767**	**11.77781**

+ 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*** DATE: **31/08/2020**
Biologist **Biologist**

METHOD NO.: MB010/MW024CV