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

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6681710 20-40763
LOCALITY :	EM2014780-006
SITE :	Morella Creek
SAMPLE :	Surface
DATE SAMPLED :	26/08/2020
DATE ANALYSED :	28/08/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed. Current levels of greens and low biovolume BGA are likely to influence water quality.

Sedgewick-Rafter Vol.(ml) 1.0218 **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						
Centrales		1	0	49	200	0.00979
Naviculales		3	0	147	1400	0.20552
Pennales (small <20um)		8	0	391	251	0.09826
CHLOROPHYCEAE						
Ankistrodesmoideae		192	0	9395	132	1.24016
Chlamydomonads		1	0	49	250	0.01223
Chlorococcoids (<10um)		172	0	8417	60	0.50499
Dictyosphaerium		12	0	587	20	0.01174
Oocystis		7	0	343	300	0.10276
Selenastrum		760	0	37189	250	9.29732
CRYPTOPHYCEAE						
Cryptomonads		1	0	49	320	0.01566
CYANOPHYCEAE						
Planktolyngbya		21	0	1028	3.8	0.00390
Synechococcales small (iauv <20)		4960	0	242709	5.25	1.27422
DINOPHYCEAE						
Dinoflagellates		0	3	6	20000	0.11744
Peridiniales		0	1	2	5000	0.00979
OTHER PHYTOPLANKTON						
Other small flagellates		3	0	147	80	0.01174

TOTAL BGA	**243737**	**1.27813**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**300508**	**12.91553**

ANALYST: *Adam Deliyiannis* **Biologist**
REVIEWED: *Kirsten Mudie (signatory)* **Biologist**
DATE: **28/08/2020**

METHOD NO.: MB010/MW024CV

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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: *Adam Deliyiannis* **Biologist**

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