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. :	6873997 21-07778
LOCALITY :	EM2101680_015
SITE :	Morella Creek
SAMPLE :	Surface
DATE SAMPLED :	3/02/2021
DATE ANALYSED :	9/02/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + Current algal levels are unlikely to influence water quality.

Sedgewick-Rafter Vol.(ml) 1.0311 **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 - (5-10um)		1	0	48	80	0.00388
Cocconeis		1	0	48	450	0.02182
Naviculales		1	0	48	1400	0.06789
Nitzschia		1	0	48	400	0.01940
CHLOROPHYCEAE						
Chlorococcoids (<10um)		100	0	4849	60	0.29095
Oocystis		12	0	582	300	0.17457
Selenastrum		76	0	3685	250	0.92135
CRYPTOPHYCEAE						
Cryptomonads		3	0	145	320	0.04655
CYANOPHYCEAE						
Planktolyngbya		30	0	1455	3.8	0.00553
Synechococcales small (iauv <20)		120	0	5819	5.25	0.03055
DINOPHYCEAE						
Dinoflagellates		1	0	48	20000	0.96984
Gymnodiniales (small)		2	0	97	500	0.04849
OTHER PHYTOPLANKTON						
Other small flagellates		7	0	339	80	0.02716

TOTAL BGA	**7274**	**0.03608**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**17211**	**2.62797**

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Adam Deliyiannis*** DATE: **09/02/2021**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA

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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: *Kirsten Mudie (signatory)* REVIEWED: *Adam Deliyiannis* DATE: **09/02/2021**

Biologist **Biologist**

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