ALS Water
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ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7394992 22-15545
LOCALITY :	EM2204816-020
SITE :	Morella Creek @Gauge
SAMPLE :	Surface
DATE SAMPLED :	17/03/2022
DATE ANALYSED :	25/03/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + Current levels may impact water quality.

Sedgewick-Rafter Vol.(ml) 1.0272 **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						
Pennales		8	0	389	300	0.11682
CHLOROPHYCEAE						
Chlorococcoids (<10um)		32	0	1558	60	0.09346
Dictyosphaerium		20	0	974	20	0.01947
CHRYSOPHYCEAE						
Other Chrysophyceae		1	0	49	350	0.01704
CRYPTOPHYCEAE						
Cryptomonads		1	0	49	320	0.01558
CYANOPHYCEAE						
Chroococcus (small cells)		6	0	292	12	0.00350
Synechococcales small (iauv <20)		117	0	5695	5.25	0.02990
DINOPHYCEAE						
Gymnodiniales (small)		2	0	97	500	0.04868
OTHER PHYTOPLANKTON						
Other small flagellates		4	0	195	80	0.01558

TOTAL BGA	**5987**	**0.03340**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**9298**	**0.36002**

+ 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 (signatory)* REVIEWED: *Kirsten Mudie (signatory)* DATE: **25/03/2022**

Biologist **Biologist**

METHOD NO.: MB010/MW024VCA