ALS Water
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ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	6796580 20-56146
LOCALITY :	EM2021368_005
SITE :	Morella Creek
SAMPLE :	Surface
DATE SAMPLED :	30/11/2020
DATE ANALYSED :	3/12/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed. Small synechococcales dominated the sample. Current levels may mildly impact on water quality.

Sedgewick-Rafter Vol.(ml) 1.0303 **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						
Naviculales		0	1	2	1400	0.00272
Pennales		0	4	8	300	0.00233
CHLOROPHYCEAE						
Chlamydomonads		0	1	2	250	0.00049
Chlorococcoids (<10um)		9	0	437	60	0.02621
Colonial green (cells)		22	0	1068	100	0.10677
Lagerheimia		5	0	243	500	0.12132
Oocystis		12	0	582	300	0.17471
Selenastrum		19	0	922	250	0.23052
CYANOPHYCEAE						
Synechococcales small (iauv <20)		344	0	16694	5.25	0.08764
Synechococcales large (iauv 20-86)		4	0	194	54	0.01048
OTHER PHYTOPLANKTON						
Other small flagellates		9	0	437	80	0.03494

TOTAL BGA	**16888**	**0.09813**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**20589**	**0.79812**

+ 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**

REVIEWED: *Kirsten Mudie (signatory)* **Biologist**

DATE: **04/12/2020**

METHOD NO.: MB010/MW024VCA