ALS Water
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ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7366810 22-11365
LOCALITY :	EM2203091-016
SITE :	Morella Creek @Gauge
SAMPLE :	Surface
DATE SAMPLED :	23/02/2022
DATE ANALYSED :	28/02/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse range of algal taxa were observed. Current levels are unlikely to impact water quality.

Sedgewick-Rafter Vol.(ml) 1.0407 **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		1	0	48	1400	0.06726
Nitzschia		1	0	48	400	0.01922
Pennales		38	0	1826	300	0.54771
Pennales (small <20um)		1	0	48	251	0.01206
CHLOROPHYCEAE						
Carteria		0	1	2	300	0.00058
Chlorococcoids (<10um)		13	0	625	60	0.03747
Oocystis		4	0	192	300	0.05765
CYANOPHYCEAE						
Synechococcales small (iauv <20)		139	0	6678	5.25	0.03506
OTHER PHYTOPLANKTON						
Other small flagellates		6	0	288	80	0.02306
Prasinophytes		2	0	96	100	0.00961

TOTAL BGA	**6678**	**0.03506**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**9851**	**0.80968**

+ 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: **28/02/2022**

Biologist **Biologist**

METHOD NO.: MB010/MW024VCA