ALS Water
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ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7791229 22-70934
LOCALITY :	EM2218950-008
SITE :	Morella Basin @ O/L
SAMPLE :	Surface
DATE SAMPLED :	29/09/2022
DATE ANALYSED :	7/10/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A moderate range of algal were observed. Current levels are unlikely to impact 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						
Pennales		2	0	97	300	0.02912
CHLOROPHYCEAE						
Chlorococcoids (<10um)		29	0	1407	60	0.08444
Dictyosphaerium		20	0	971	20	0.01941
Lagerheimia		1	0	49	500	0.02426
Monoraphidium (small)		72	0	3494	16	0.05591
Oocystis		14	0	679	300	0.20382
CYANOPHYCEAE						
Synechococcales small (iauv <20)		34	0	1650	5.25	0.00866
DINOPHYCEAE						
Peridiniales		8	0	388	5000	1.94118
EUGLENOPHYCEAE						
Euglenophytes		1	0	49	4420	0.21450
OTHER PHYTOPLANKTON						
Other small flagellates		5	0	243	80	0.01941

TOTAL BGA	**1650**	**0.00866**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**9027**	**2.60072**

+ 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: *Natalie Alabaster* DATE: **07/10/2022**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA