ALS Water
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ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7218530 21-52583
LOCALITY :	EM2121437-007
SITE :	Morella Basin @ O/L
SAMPLE :	Surface
DATE SAMPLED :	26/10/2021
DATE ANALYSED :	9/11/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A moderately diverse algal community was observed with current levels unlikely to influence water quality.

Sedgewick-Rafter Vol.(ml) 1.032 **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		1	0	48	200	0.00969
Pennales		3	0	145	300	0.04360
Pennales (small <20um)		2	0	97	251	0.02432
CHLOROPHYCEAE						
Ankistrodesmoideae		10	0	484	132	0.06395
Chlorococcoids (<10um)		18	0	872	60	0.05233
Colonial green (cells)		8	0	388	100	0.03876
Monoraphidium		7	0	339	900	0.30523
Oocystis		18	0	872	300	0.26163
Scenedesmus		0	4	8	250	0.00194
CYANOPHYCEAE						
Pseudanabaena		3	0	145	12.5	0.00182
Synechococcales small (iauv <20)		1060	0	51357	5.25	0.26962
OTHER PHYTOPLANKTON						
Other small flagellates		2	0	97	80	0.00775

TOTAL BGA	**51502**	**0.27144**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**54852**	**1.08064**

+ 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)* **Biologist** REVIEWED: *Adam Deliyiannis* **Biologist** DATE: **10/11/2021**

METHOD NO.: MB010/MW024VCA