ALS Water
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ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7171301 21-46438
LOCALITY :	EM2119079-015
SITE :	Morella Basin @ O/L
SAMPLE :	Surface
DATE SAMPLED :	22/09/2021
DATE ANALYSED :	28/09/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed. Current levels are unlikely to influence water quality.

Sedgewick-Rafter Vol.(ml) 1.0327 **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		0	1	2	200	0.00039
Entomoneis		0	1	2	1000	0.00194
Pennales		3	0	145	300	0.04358
CHLOROPHYCEAE						
Ankistrodesmoideae		42	0	2034	132	0.26842
Chlorococcoids (<10um)		10	0	484	60	0.02905
Dictyosphaerium		11	0	533	20	0.01065
Oocystis		3	0	145	300	0.04358
Scenedesmus		4	0	194	250	0.04842
CYANOPHYCEAE						
Pseudanabaena		0	7	14	12.5	0.00017
Synechococcales small (iauv <20)		488	0	23627	5.25	0.12404
OTHER PHYTOPLANKTON						
Other small flagellates		1	0	48	80	0.00387
Raphidophytes		1	0	48	7000	0.33892

TOTAL BGA	**23641**	**0.12421**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**27276**	**0.91302**

+ 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: *Louise Ungemach (signatory)* **Biologist**

DATE: **29/09/2021**

METHOD NO.: MB010/MW024VCA