ALS Water
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ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7241905 21-55807
LOCALITY :	EM2123012-006
SITE :	McGrath Flat North
SAMPLE :	Surface
DATE SAMPLED :	17/11/2021
DATE ANALYSED :	23/11/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + High levels of low biovolume BGA may mildy impair water quality.

Sedgewick-Rafter Vol.(ml) 1.0333 **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						
Chaetoceros		8	0	387	200	0.07742
Pennales (small <20um)		15	0	726	251	0.18218
CHLOROPHYCEAE						
Ankistrodesmoideae		44	0	2129	132	0.28104
Chlorococcoids (<10um)		140	0	6774	60	0.40646
CRYPTOPHYCEAE						
Cryptomonads		1	0	48	320	0.01548
CYANOPHYCEAE						
Synechococcales small (iauv <20)		6680	0	323236	5.25	1.69699
DINOPHYCEAE						
Gymnodiniales		1	0	48	2000	0.09678
Gymnodiniales (small)		3	0	145	500	0.07258
OTHER PHYTOPLANKTON						
Other flagellates		0	2	4	90	0.00035
Other small flagellates		25	0	1210	80	0.09678

TOTAL BGA	**323236**	**1.69699**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**334707**	**2.92607**

+ 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)*** REVIEWED: ***Adam Deliyiannis (signatory)*** DATE: **23/11/2021**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA