ALS Water
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ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7684059 22-64963
LOCALITY :	EM2216764-006
SITE :	McGrath Flat North
SAMPLE :	Surface
DATE SAMPLED :	30/08/2022
DATE ANALYSED :	6/09/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A moderate diversity of algae was observed. Water quality may be impacted.

Sedgewick-Rafter Vol.(ml) 1.02 **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	49	200	0.00980
Chaetoceros		6	0	294	200	0.05882
Pennales		10	0	490	300	0.14706
CHLOROPHYCEAE						
Chlamydomonads		1	0	49	250	0.01225
Chlorococcoids (<10um)		510	0	25000	60	1.50000
Monoraphidium (small)		8	0	392	16	0.00627
Oocystis (small)		1	0	49	100	0.00490
CRYPTOPHYCEAE						
Chroomonas		2	0	98	60	0.00588
CYANOPHYCEAE						
Planktolyngbya		20	0	980	3.8	0.00373
Synechococcales small (iauv <20)		980	0	48039	5.25	0.25221
DINOPHYCEAE						
Gymnodiniales		2	0	98	2000	0.19608

TOTAL BGA	**49019**	**0.25593**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**75538**	**2.19701**

+ 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: *Lauren Minett (signatory)* REVIEWED: *Natalie Alabaster* DATE: **06/09/2022**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA