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ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7281160 21-59669
LOCALITY :	EM2125413-019
SITE :	Tilley D/S Nth O/L
SAMPLE :	Surface
DATE SAMPLED :	14/12/2021
DATE ANALYSED :	20/12/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + Low levels of algae are unlikely to influence water quality.

Sedgewick-Rafter Vol.(ml) 1.0145 **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		5	0	246	200	0.04929
Pennales		2	0	99	300	0.02957
CHLOROPHYCEAE						
Ankistrodesmoideae		10	0	493	132	0.06506
Botryococcus		0	20	39	98	0.00386
Chlorococcoids (<10um)		9	0	444	60	0.02661
Monoraphidium (small)		3	0	148	16	0.00237
Oocystis		8	0	394	300	0.11828
CYANOPHYCEAE						
Synechococcales small (iauv <20)		69	0	3401	5.25	0.01785
DINOPHYCEAE						
Peridiniales		0	1	2	5000	0.00986
OTHER PHYTOPLANKTON						
Other small flagellates		2	0	99	80	0.00789

TOTAL BGA	**3401**	**0.01785**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**5365**	**0.33064**

+ 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: **22/12/2021**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA