ALS Water
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ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7218534 21-52583
LOCALITY :	EM2121437-016
SITE :	Stony Well
SAMPLE :	Surface
DATE SAMPLED :	26/10/2021
DATE ANALYSED :	9/11/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse range of algal taxa was observed. Excessive levels of small BGA Synechococcales will impact 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						
Pennales		1	0	48	300	0.01453
Pennales (small <20um)		10	0	484	251	0.12153
Pleurosigma		0	1	2	2000	0.00387
CHLOROPHYCEAE						
Ankistrodesmoideae		380	0	18398	132	2.42859
Chlorococcoids (<10um)		88	0	4261	60	0.25564
CYANOPHYCEAE						
Synechococcales small (iauv <20)		30400	0	1471870	5.25	7.72732
DINOPHYCEAE						
Gymnodiniales		6	0	291	2000	0.58100
Gymnodiniales (small)		6	0	291	500	0.14525
OTHER PHYTOPLANKTON						
Other small flagellates		24	0	1162	80	0.09296
Prasinophytes		1	0	48	100	0.00484
Raphidophytes		2	0	97	7000	0.67783

TOTAL BGA	**1471870**	**7.72732**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**1496952**	**12.05336**

+ 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: *Kirsten Mudie (signatory)* **Biologist**

DATE: **09/11/2021**

METHOD NO.: MB010/MW024VCA