ALS Water
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ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7152220 21-43664
LOCALITY :	EM2118068-011
SITE :	Stony Well
SAMPLE :	Surface
DATE SAMPLED :	8/09/2021
DATE ANALYSED :	13/09/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed. Excessive levels of low biovolume BGA Synechococcales are likely to influence water quality.

Sedgewick-Rafter Vol.(ml) 1.0242 **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						
Amphora		1	0	49	500	0.02441
Nitzschia		0	1	2	400	0.00078
Pennales (small <20um)		1	0	49	251	0.01225
Pleurosigma		0	5	10	2000	0.01953
CHLOROPHYCEAE						
Ankistrodesmoideae		55	0	2685	132	0.35442
Chlorococcoids (<10um)		23	0	1123	60	0.06737
CYANOPHYCEAE						
Synechococcales small (iauv <20)		16160	0	788908	5.25	4.14177
DINOPHYCEAE						
Gymnodiniales (small)		5	0	244	500	0.12205
OTHER PHYTOPLANKTON						
Other small flagellates		7	0	342	80	0.02734
Raphidophytes		2	0	98	7000	0.68346

TOTAL BGA	**788908**	**4.14177**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**793510**	**5.45338**

+ 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: **14/09/2021**

METHOD NO.: MB010/MW024VCA