ALS Water
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ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	6873987 21-07778
LOCALITY :	EM2101680_005
SITE :	Long Point
SAMPLE :	Surface
DATE SAMPLED :	3/02/2021
DATE ANALYSED :	8/02/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + Current low algal levels are unlikely to influence water quality.

Sedgewick-Rafter Vol.(ml) 1.0199 **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		0	55	108	200	0.02157
Nitzschia		0	12	24	400	0.00941
Pennales		0	3	6	300	0.00176
Pleurosigma		0	2	4	2000	0.00784
Rhizosolenia		18	0	882	500	0.44122
CHLOROPHYCEAE						
Chlorococcoids (<10um)		11	0	539	60	0.03236
CRYPTOPHYCEAE						
Cryptomonads		1	0	49	320	0.01569
DINOPHYCEAE						
Dinoflagellates		0	1	2	20000	0.03922
OTHER PHYTOPLANKTON						
Other small flagellates		6	0	294	80	0.02353

TOTAL BGA	**0**	**0.00000**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**1908**	**0.59261**

+ 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)* **Biologist** REVIEWED: *Adam Deliyiannis* **Biologist** DATE: **09/02/2021**

METHOD NO.: MB010/MW024VCA