ALS Water
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ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7056281 21-31436
LOCALITY :	EM2111820-019
SITE :	Parnka Point
SAMPLE :	Surface
DATE SAMPLED :	21/06/2021
DATE ANALYSED :	25/06/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed and low biovolume BGA Synechococcales were most numerous. Current levels are likely to impair water quality.

Sedgewick-Rafter Vol.(ml) 1.0208 **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						
Entomoneis		1	0	49	1000	0.04898
Naviculales		1	0	49	1400	0.06857
Nitzschia		4	0	196	400	0.07837
Pennales (small <20um)		1	0	49	251	0.01229
CHLOROPHYCEAE						
Ankistrodesmoideae		258	0	12637	132	1.66810
Chlorococcoids (<10um)		224	0	10972	60	0.65831
CYANOPHYCEAE						
Leptolyngbya		0	45	88	2.36	0.00021
Synechococcales small (iauv <20)		14720	0	721003	5.25	3.78527
DINOPHYCEAE						
Dinoflagellates		1	0	49	20000	0.97962
Gymnodiniales (small)		7	0	343	500	0.17143
OTHER PHYTOPLANKTON						
Other small flagellates		8	0	392	80	0.03135

TOTAL BGA	**721091**	**3.78547**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**745827**	**7.50251**

+ 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: *Karen Simonsen (signatory)* **Biologist**

DATE: **25/06/2021**

METHOD NO.: MB010/MW024VCA