ALS Water
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ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7152218 21-43664
LOCALITY :	EM2118068-009
SITE :	Parnka Point
SAMPLE :	Surface
DATE SAMPLED :	8/09/2021
DATE ANALYSED :	14/09/2021
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) 1.036 **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						
Nitzschia		2	0	97	400	0.03861
Pennales		3	0	145	300	0.04344
Pennales (small <20um)		3	0	145	251	0.03634
CHLOROPHYCEAE						
Ankistrodesmoideae		84	0	4054	132	0.53514
Chlorococcoids (<10um)		37	0	1786	60	0.10714
CYANOPHYCEAE						
Synechococcales small (iauv <20)		19040	0	918919	5.25	4.82432
DINOPHYCEAE						
Gymnodiniales		1	0	48	2000	0.09653
Gymnodiniales (small)		3	0	145	500	0.07239
OTHER PHYTOPLANKTON						
Other small flagellates		6	0	290	80	0.02317
Raphidophytes		0	4	8	7000	0.05405

TOTAL BGA	**918919**	**4.82432**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**925637**	**5.83113**

+ 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