ALS Water
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ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7609354 22-60563
LOCALITY :	EM2215130-003
SITE :	Parnka Point
SAMPLE :	Surface
DATE SAMPLED :	9/08/2022
DATE ANALYSED :	12/08/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A moderately diverse community of algal taxa were observed. Current levels may mildly influence water quality.

Sedgewick-Rafter Vol.(ml) 1.0194 **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		81	0	3973	200	0.79459
Nitzschia		2	0	98	400	0.03924
Pennales		2	0	98	300	0.02943
CHLOROPHYCEAE						
Chlorococcoids (<10um)		620	0	30410	60	1.82460
Monoraphidium (small)		33	0	1619	16	0.02590
CYANOPHYCEAE						
Synechococcales small (iauv <20)		2860	0	140279	5.25	0.73646
DINOPHYCEAE						
Gymnodiniales		8	0	392	2000	0.78478
Gymnodiniales (small)		7	0	343	500	0.17167

TOTAL BGA	**140279**	**0.73646**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**177212**	**4.40666**

+ 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 (signatory)* REVIEWED: *Lauren Minett (signatory)* DATE: **15/08/2022**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA