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ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7136731 21-41798
LOCALITY :	EM2116912-009
SITE :	Parnka Point
SAMPLE :	Surface
DATE SAMPLED :	24/08/2021
DATE ANALYSED :	27/08/2021
SAMPLED BY :	Sample analysed as received

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

Sedgewick-Rafter Vol.(ml) 1.0722 **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	93	400	0.03731
Pennales		2	0	93	300	0.02798
CHLOROPHYCEAE						
Ankistrodesmoideae		130	0	6062	132	0.80022
Chlorococcoids (<10um)		32	0	1492	60	0.08954
CYANOPHYCEAE						
Synechococcales small (iauv <20)		9040	0	421563	5.25	2.21321
DINOPHYCEAE						
Gymnodiniales (small)		2	0	93	500	0.04663
OTHER PHYTOPLANKTON						
Other small flagellates		15	0	699	80	0.05596

TOTAL BGA	**421563**	**2.21321**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**430095**	**3.27084**

+ 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: **27/08/2021**

METHOD NO.: MB010/MW024VCA