ALS Water
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ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7394987 22-15545
LOCALITY :	EM2204816-015
SITE :	North Jacks Point
SAMPLE :	Surface
DATE SAMPLED :	17/03/2022
DATE ANALYSED :	25/03/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + Current levels will impair water quality and pose health risks.

Sedgewick-Rafter Vol.(ml) 1.0327 **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						
Centrales		1	0	48	200	0.00968
Nitzschia		915	0	44301	400	17.72054
Pennales		3	0	145	300	0.04358
CHLOROPHYCEAE						
Ankistrodesmoideae		2360	0	114264	132	15.08279
Chlorococcoids (<10um)		2160	0	104580	60	6.27481
CRYPTOPHYCEAE						
Cryptomonads		1	0	48	320	0.01549
CYANOPHYCEAE						
Synechococcales small (iauv <20)		30080	0	1456376	5.25	7.64598
DINOPHYCEAE						
Gymnodiniales		1	0	48	2000	0.09683
Gymnodiniales (small)		1	0	48	500	0.02421

TOTAL BGA	**1456376**	**7.64598**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**1719858**	**46.91391**

+ 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: *Kirsten Mudie (signatory)* DATE: **25/03/2022**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA